TOSHIBA

FILE NO. 030-200117

SERVICE MANUAL

COLOUR TELEVISION

VJ13 Chassis

43VJ13P

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 28)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

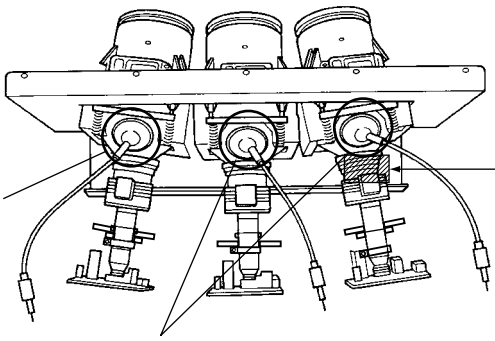
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

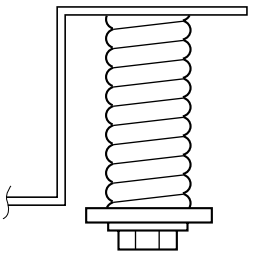
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

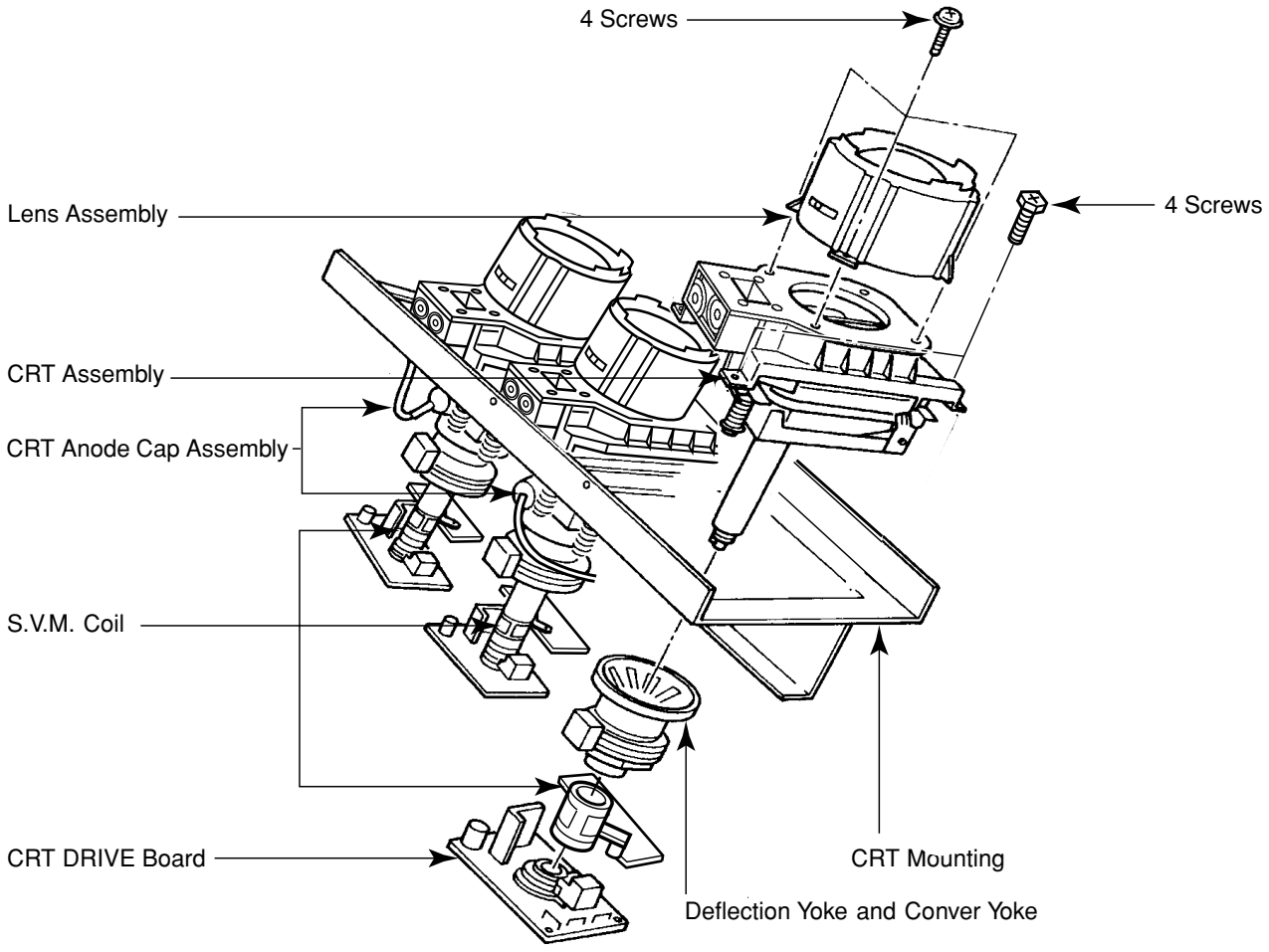
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

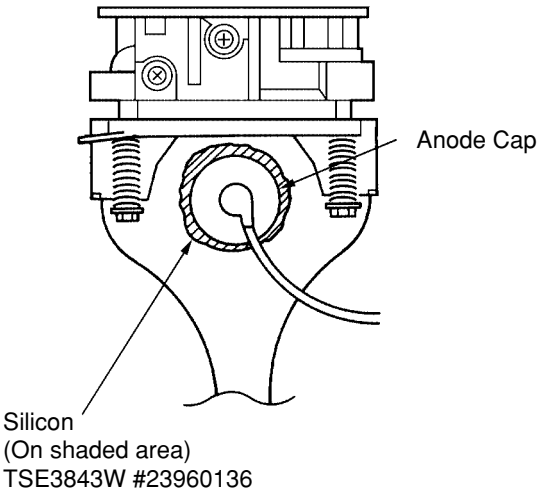
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

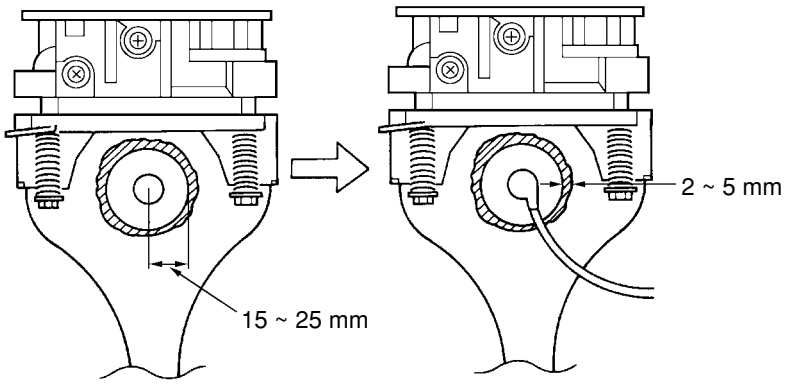
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

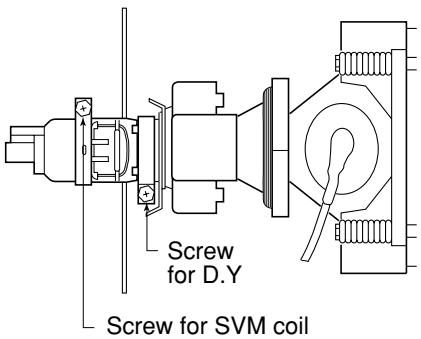
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 20.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



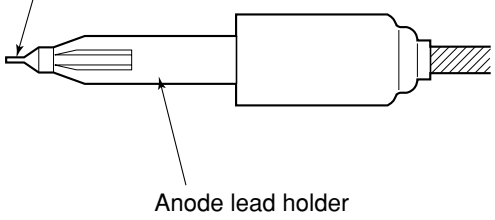
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

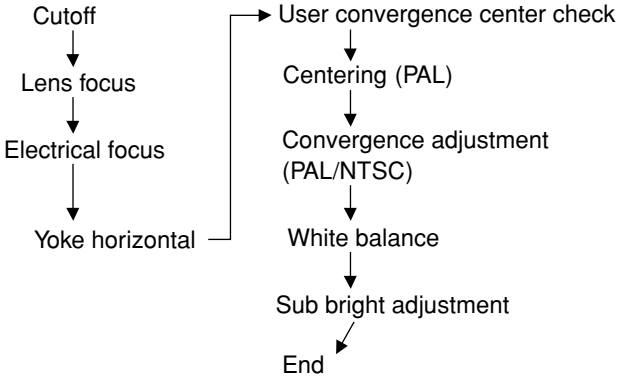
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



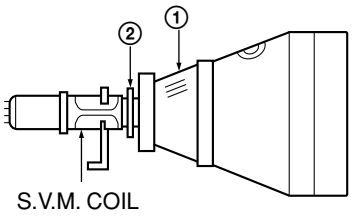
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

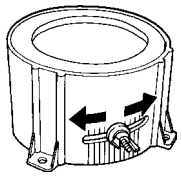


Fig. a

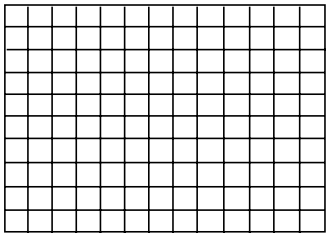
5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

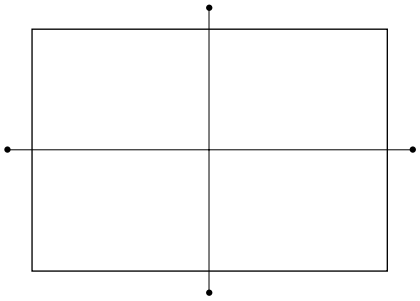
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

TILT ADJUSTMENT

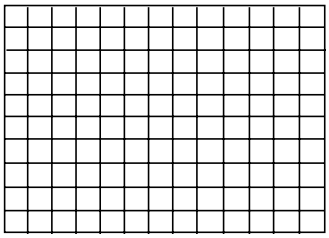
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center slots of screen edge (top and bottom, left and right).



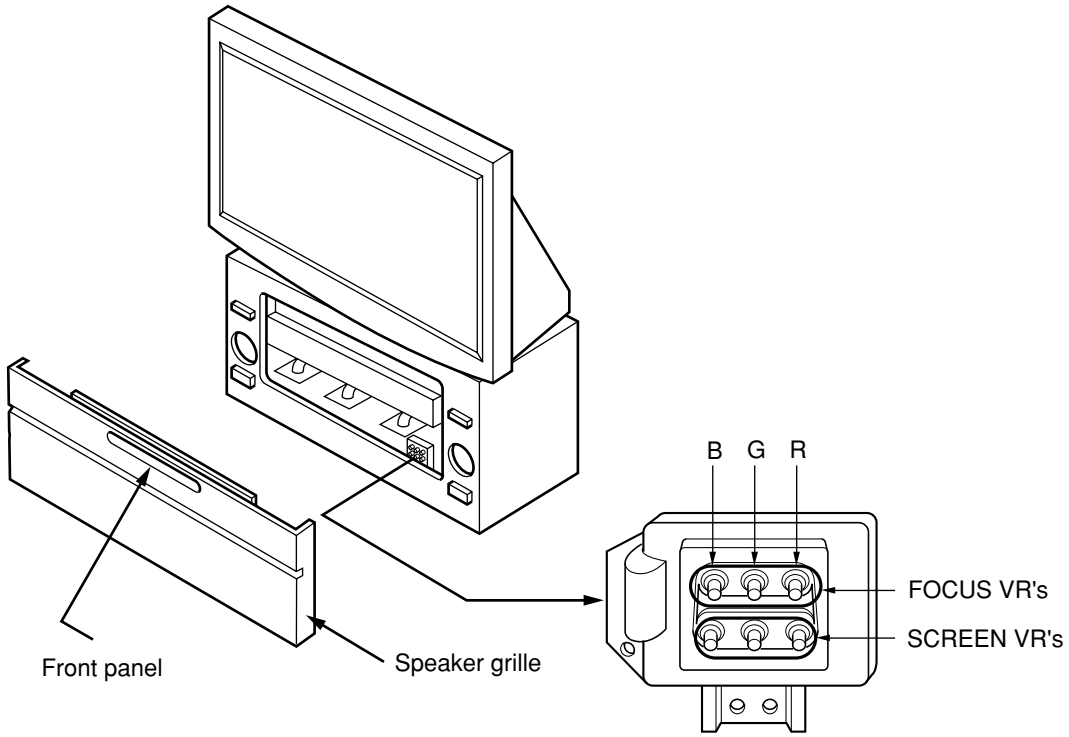
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform VERT. LINEARITY adjustment. (See page 14.)
7. Perform WIDTH adjustment. (See page 14.)
8. Check whole quality of green line.
9. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

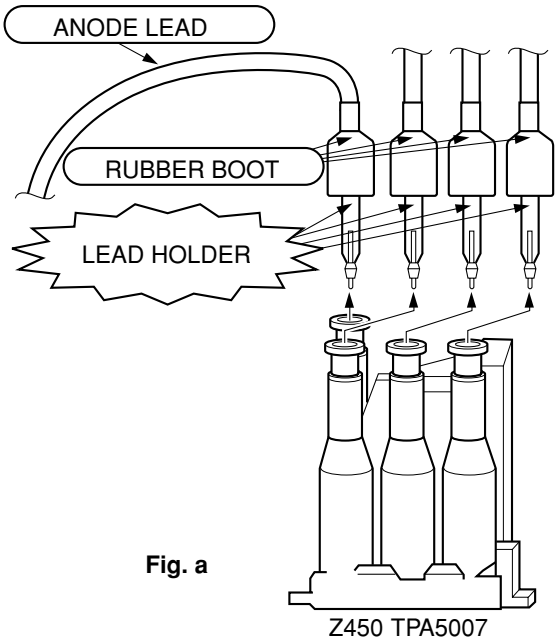


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5007 (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

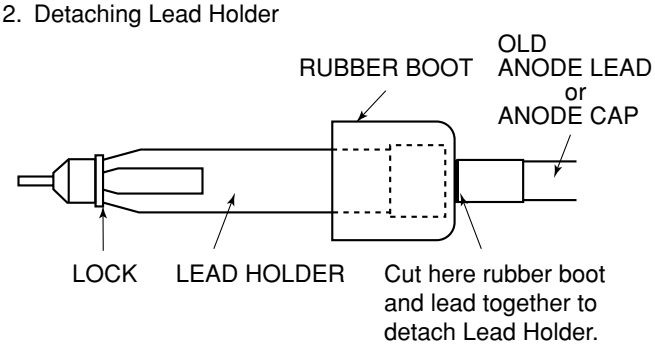


Fig. b

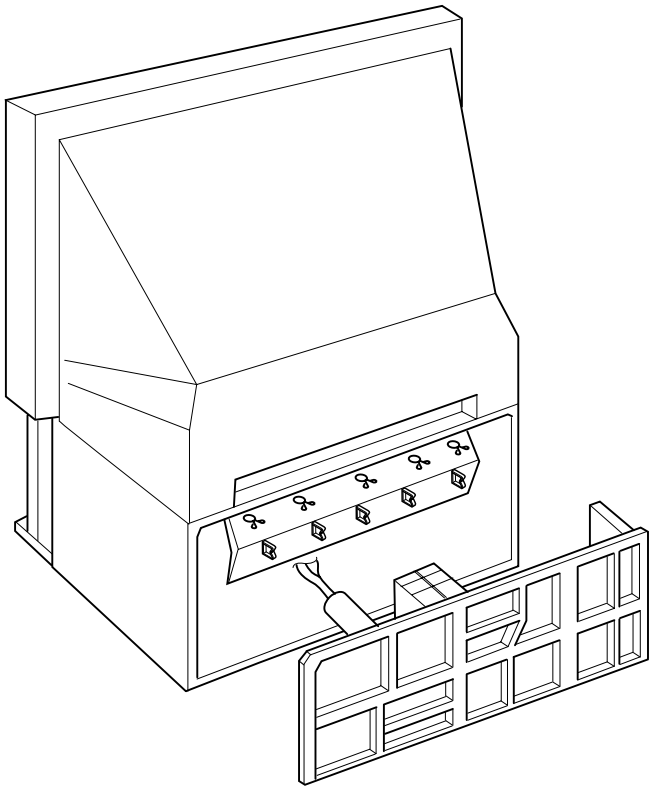
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

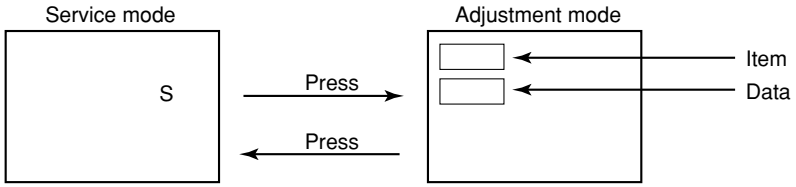
2) Press 🔇 button again to keep pressing.

3) While pressing the 🔇 button, press MENU button on TV set.

(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to “00”:	CALL + Channel button on TV (▼)
“RCUT” selection :	1 button
“GCUT” selection :	2 button
“BCUT” selection :	3 button
“SCNT” selection :	4 button
“COLP” selection :	5 button – – – – – Color thickness correction
“TNTC” selection :	6 button
Convergence adj :	YELLOW button
Self diagnostic display ON/OFF :	9 button

note: Displayed differently as shown below, depending on the setting of the receiving color system.
COLP (PAL)
COLC (NTSC)
COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode.
(See SETTING & ADJUSTING DATA on page 28)

5. ADJUSTING THE DATA

1) Pressing of VOLUME ◿ +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

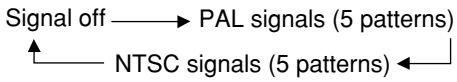
After replacing QA02, the following initialization is required.

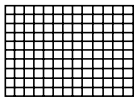
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform “Auto search Memory” on the owner’s manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

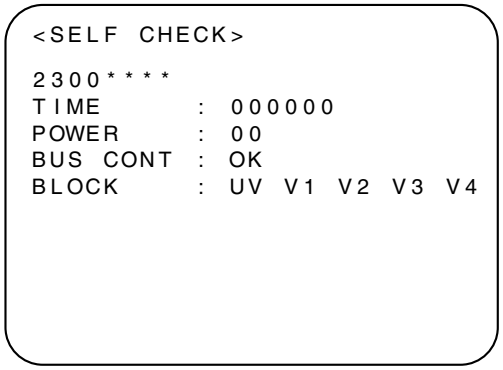


Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

***** The signals marked with ▒ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press “9” button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC’s are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : Black

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.

NOTE: (1) In case that "on timer" indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that "on timer" indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

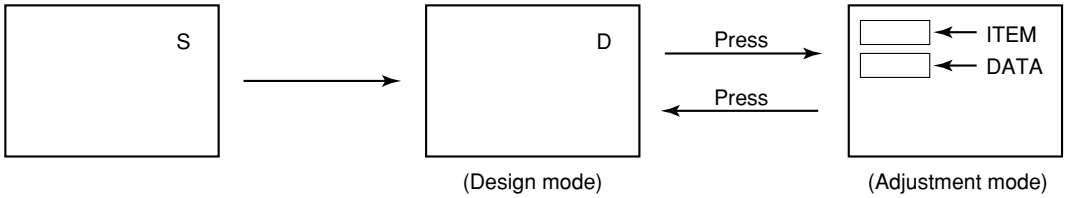
① Part number of microcomputer (QA01)
② Total hour of turn the TV on. (Unit: H)
③ Operation number of protecting circuit ----“00” is normal.
When indication is other than “00”, overcurrent apts to flow, and circuit parts may possibly be damaged.
④ BUS CONT ----“OK” is normal.
When indication shows “Q ○○○ NG”, the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (→①1)
V2 : VIDEO 2 input mode (→①2)
V3 : VIDEO 3 input mode
V4 : VIDEO 4 input mode

* The items marked with ▒ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.



When QA02 is initialized, items “OPT0”, “OPT1” and "OPT2" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items “OPT0”, “OPT1” and "OPT2".

2. SELECTING THE ADJUSTING ITEMS

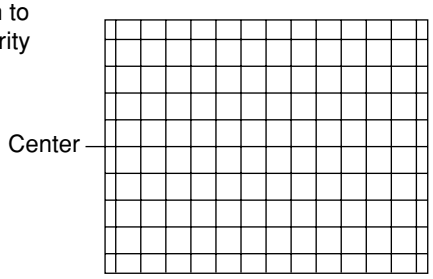
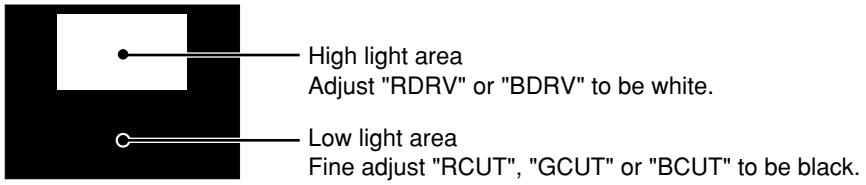
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

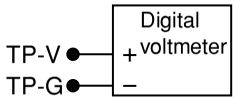
Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 28)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

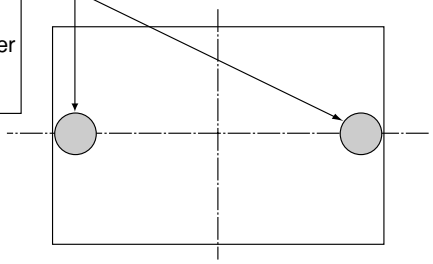
ELECTRICAL ADJUSTMENT

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 10 steps. Note : Check the horizontal picture position is correct.
VERTICAL LINEARITY (VLIN)	1. Call up the adjustment mode display, then select the item **VLIN**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to obtain the picture of the best linearity 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- button on Remote. (Return to Normal Picture) 7. Press the ⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
SCNT	Sub-contrast	Picture mode 1 Audio system: I	Sub-bright signal (PAL-I signal)	TP03 SIGNAL unit	1) Adjust amplitude from the pedestal level up to the white peak	1.0 ± 0.05Vpp
BRTC	Sub-bright center	Picture mode 1	Sub-bright signal	Screen adjustment	1) Adjust the number of black collapsed lines of sub-bright signals 2) Adjust after adjusting W/B, SCNT	4 ± 1.5 lines
COLP	Sub-color center PAL	Picture mode 1	Sub-bright signal (PAL)	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar 2) Adjust the P-P value of the upper half	0.54 ± 0.05Vpp
COLS	Sub-color center SECAM	Picture mode 1	SECAM color bar	TP02 SIGNAL unit	1) Adjust the amplitude of the color bar (Apply picture mute at the time of adjustment) 2) Adjust the P-P value of the upper half	0.65 ± 0.05Vop
SRY	SECAM R-Y Black level		SECAM color bar	TP02 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
SBY	SECAM B-Y Black level		SECAM color bar	TP01 SIGNAL unit	1) Adjust so that the level of black and white signal part can be aligned with the level of H.BLK	0 ± 10mV
Screen adjustment	Screen	Factory screen adjusting mode		CRT tubular screen	1) Darken the environment as much as possible 2) Set to factory-set screen adjusting MODE (Y mute, DRV.CUT=40H) 3) Directly observe the surface of Cathode Ray Tube and adjust the screen VR to the point that starts lighting 4) Make above-mentioned adjustments for each tube of G, R, and B.	Point that starts lighting
Focus adjustment	Focus	Picture mode 1	Retma signal (PAL-I) Crosshatch signal	Screen adjustment	1) Adjust to the best position by repeating electrical focus and optical focus adjustments 2) Use the jig and shade the CRT except the axes under adjustment 3) Make above-mentioned adjustments for each tube of G, R, and B.	For details, refer to [focus adjusting method] introduced in the next page.
RDRV BDRV	Bright part W/B			Screen adjustment	1) Adjust the color temperature of the bright part (103cd/m^2).	8750k-0.002uv
RCUT BCUT	Dark part W/B			Screen adjustment	1) Adjust the color temperature of the dark part (17cd/m^2)	8750k-0.002uv
VCEN	Voltage Adjustment	Picture mode 1	Phillips Pattern (PAL-1)	Between TP-V and TP-G	1) Connect a digital voltmeter between TP-V and TP-G and adjust it to 10 ± 10mV by VCEN data 	10 ± 10mV

Items	Names	Settings	Input signals	Measuring points	Adjusting methods	Adjusting standards
Adjustment of screen position		Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) Adjust the vertical and horizontal screen positions using the centering magnet so that the center cross mark of the dummy screen and the cross mark of the Phillips pattern can overlap precisely. This will be carried out individually for the tubes of R, G, and B. (Caution) Do not move HPOS and VPOS data.	
HIT VLIN	Vertical amplitude adjustment	Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) Shorten the vertical amplitude by HIT data in the beginning until up-and-down flags appear on the screen. 2) Subsequently, lengthen the vertical amplitude by HIT data until either up or down flag end is aligned with the screen end.	
WID	Horizontal amplitude adjustment	Picture mode 1	Phillips Pattern (PAL-I)	Screen adjustment	1) At the first, lower the HIT data and shorten the amplitude up to a posotion where the left-and-right flags completely appear on the screen. 2) Lengthen the horizontal amplitude with the WID data so that the total number of marks will come to 8 (4 each on left and right	8 ± 1 marks
HIT	Vertical amplitude adjustment	Picture mode 1 16:9 mode	Phillips Pattern (PAL-I)	Screen adjustment	1) Make adjustments so that the upper part of the screen will come in contact with the 16:9 frame.	
NHIT NLIN	Vertical amplitude adjustment NTSC	Picture mode 1	Monnoscope signals NTSC LEADER-435B	Screen adjustment	1) The first mark on the upper side of the screen is to be hidden by the mask. 2) The up-and down balance is to be kept properly.	
NWID	Vertical amplitude adjustment NTSC	Picture mode 1	Monnoscope signals NTSC LEADER-435B	Screen adjustment	1) Adjust the 2.5 line left register mark to the left screen end.	
NHIT	Vertical amplitud adjustment NTSC	Picture mode 1 16:9 mode	Monnoscope signals NTSC LEADER-435B	Screen	1) Make adjustments so that that the upper part of the screen will come in contact with the 16:9 frame.	

Adjustment items	Adjusting methods
Focus adjustment The items of G lens adjustment mentioned in 4) are applicable to 50, and regarding the G lens adjustment for 43 and 42W, apply the methods mentioned in the next page.	(Conditions) - User adjustment: Dynamic mode, Cinema mode - To be performed after centering magnet adjustment. - Signal : Lens: R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... Crosshatch (PAL) Electrical focus : R .... Retma Pattern (PAL) G .... Crosshatch (PAL) B .... RetmaPattern (PAL) (Adjustment) 1. Common item 1) Make coarse adjustments in advance on the lens focus and electrical focus of each R, G, and B tube. 2. G adjustment 1) Set to the G monochrome by lens cap. 2) Receive the image of crosshatch. 3) Adjust the G electric focus. Adjust the G electrical focus by the focus volume of focus block (Z410) so that the screen center will come to optimum focus. (Although the G electrical focus is to be adjusted to allow the scanning lines in the center of the screen to be seen most clealy, if G alignment and astigmatism are inferior with the appearance of vertical and horizontal flares in the center of and around the screen and if the lines become thicker, adjust to the best point observing the entire screen.) 4) Adjust the G lens focus. (Details on43PH and 42W are mentioned in the next page) Keep an eye on the center of the crosshatch pattern and adjust so that the screen center will become clear. As a rough guide to decrease unevenness, adjust so that red flares on both sides of the crosshatch line will come to 1mm in thickness. 5) Repeat 3, 4, and attempt to further improve the focus quality.

Adjustment items	Adjusting methods
Focus adjustment The method mentioned left is applied to the focus adjustment on the G lens adjustment of 43PH, 42W.The details of G lens adjustment for 50PH,61PH, 50W, and 57W are described in the previous page.	4) Adjust the G lens focus. (Applicable only to 43PH, 42W) Watch the horizon of the left and right both ends of the screen (the range of circle with 100mm diameter shown in the following sketch), make optimum adjustments on the G lens focus, and check that the focus balance on the right and left is satisfactory. (Balance check of left-and-right G lens focus) (1) Adjust the G lens focus best by crosshatch of the left end (or the right end). (2) Check the focus of the right end (orthe left end). If the balance of the left and right lens focus (flare) is different, part it and adjust to the medium quality. Check the environment and confirm that the focus quality (including flare) is within a tolerable range. Point to be noted during G lens focus adjustment (To be adjusted within circles of 100mm diameter contacting the left and right of the bezel)  Concerning items 1), 2), 3), and 5) of G adjustment, these are common to the ones on the previous page. 3. R adjustment 1) Set to the R monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the R electrical focus. Adjust by focus volume of the focus block (Z410) so that the screen center will come to optimum focus. 4) Adjust the R lens focus. Adjust so that the screen center will become the best. 5) Repeat 3, 4, and attempt to further improve the focus quality.

Adjustment items	Adjusting methods
Focus adjustment	4. B adjustment 1) Set to the B monochrome by lens cap. 2) Receive the image of Retma pattern. 3) Adjust the B electrical focus. Adjust by focus volume of the focus block (Z410) so that the screen center will come to optimum focus (point where the brightness gets minimized) 4) Receive the image of crosshatch pattern. 5) Adjust the B lens focus. Pay attention to the border of the blue line and the black (background) in the vicinity of the screen center. First of all, make coarse adjustments of the lens, and move the lens adjusting screw to the right at the point being considered as the best focus. Then, the lines of the border become clear. Check and confirm under the circumstance that a flare appears. On the contrary, if the lens adjusting screw is moved to the left from the situation, the flare will disappear, and at this point you will find a point from which the borderline itself begins to go out of focus. Adjust to the very point where the focus begins to go out.

CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on four screens; 4 : 3 and 16 : 9 screens in both PAL and NTSC modes. When making the adjustments, feed an external signal to make an synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.

Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

Order of the adjusting screens is PAL 4 : 3 → PAL 16 : 9 → NTSC 4 : 3 → NTSC 16 : 9.

The menu order is 1 → 2 → 3 → 1 → .... when the vertical sync is 50 Hz. (In this case, item 4~6 are not displayed)

The menu order is 4 → 5 → 6 → 4 → .... when the vertical sync is 60 Hz. (In this case, item 1~3 are not displayed)

1-1. Entering the Adjustment Menu

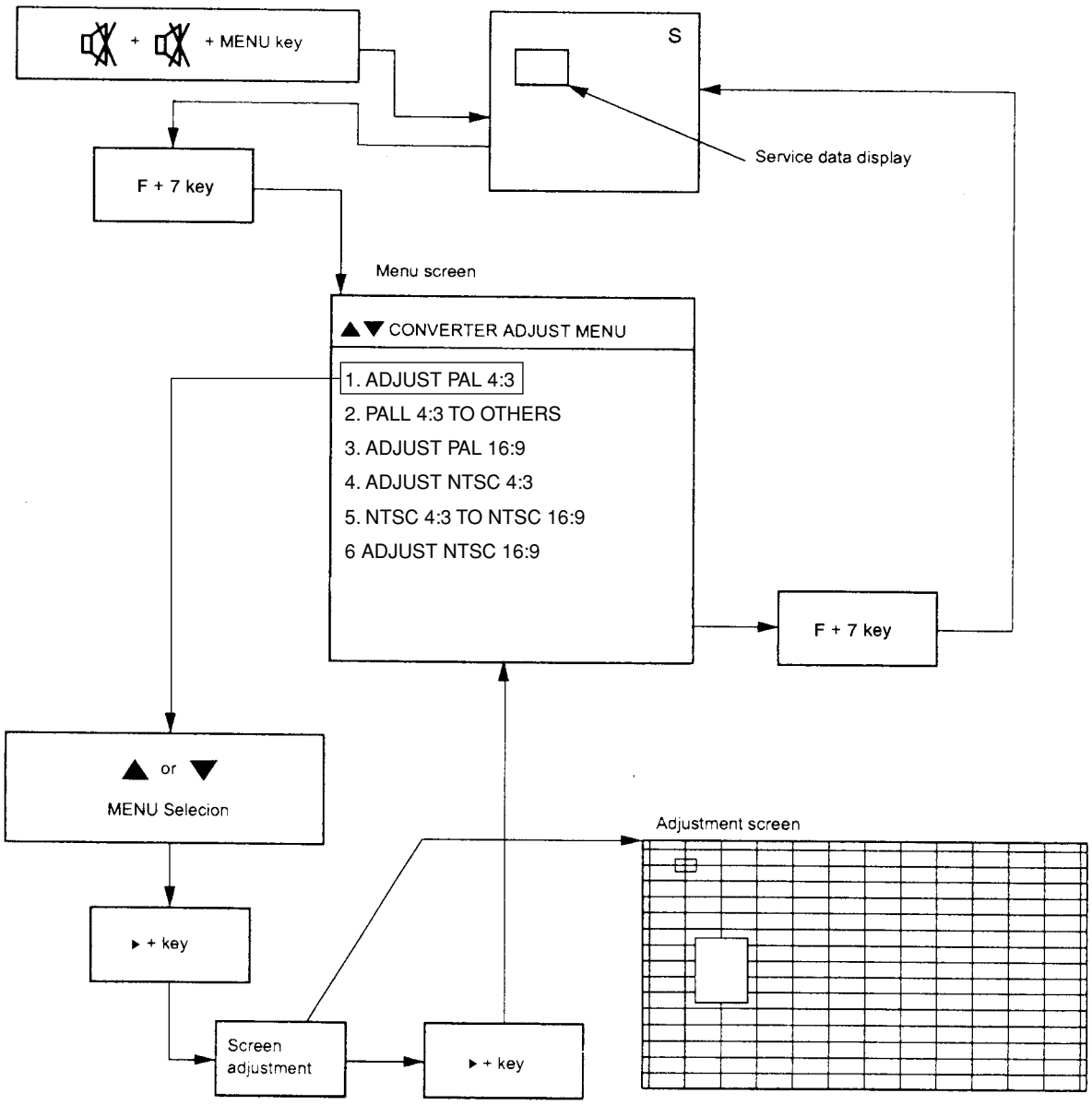
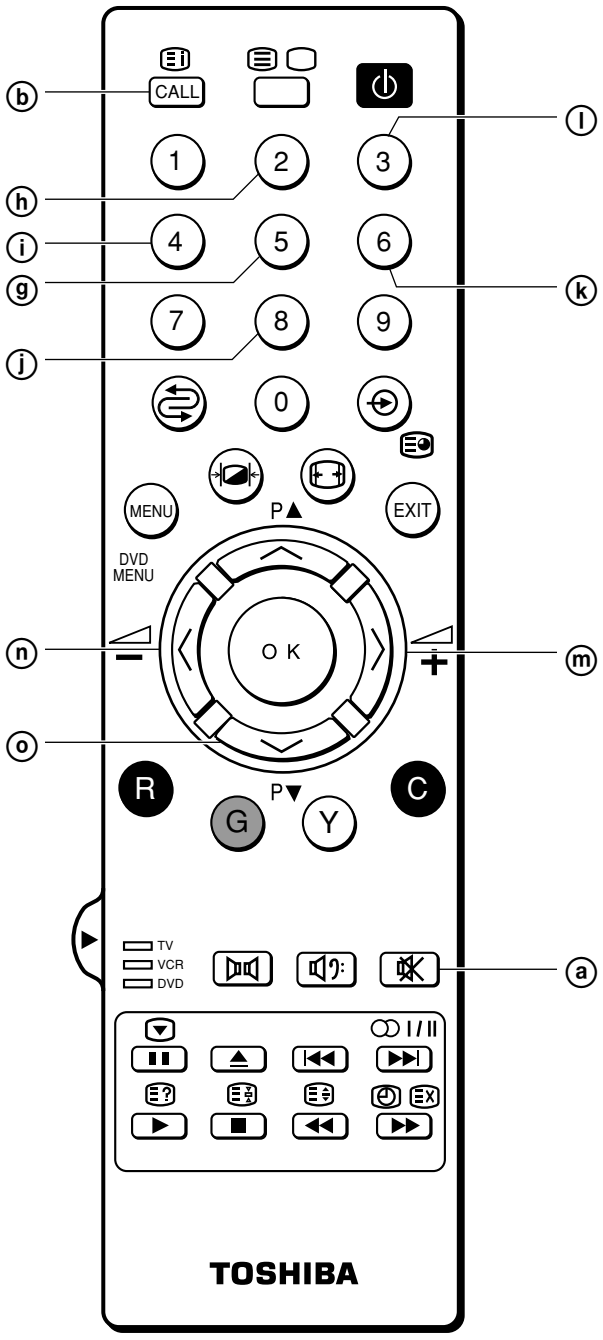


Fig. 1

1-2. Remote Control Key

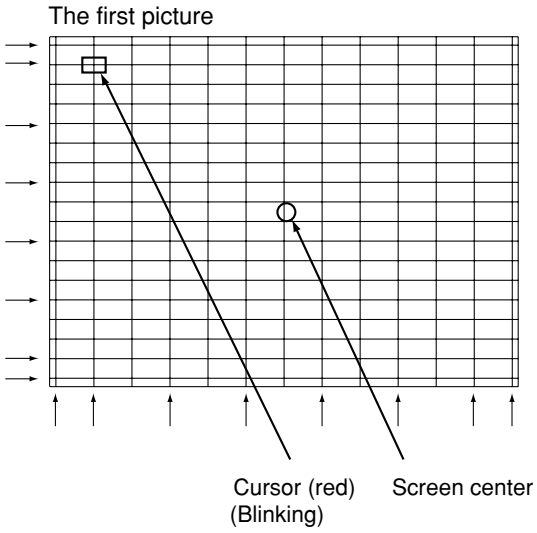


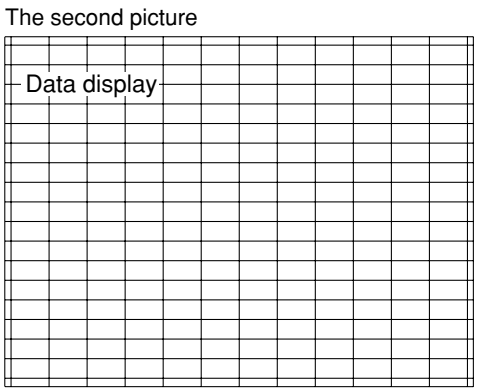
ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.
ⓑ F key ..... Push this key and 7 key to enter and cancel the convergence menu.
ⓖ 5 key ..... Cursor shift / data change mode change-over.
ⓗ 2 key ..... Cursor up / adjusting point up.
ⓘ 4 key ..... Cursor left / adjusting point left
ⓙ 8 key ..... Cursor down / adjusting point down
ⓚ 6 key ..... Cursor right / adjusting point right
ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).
ⓜ ▶ key ..... Execution key on convergence menu.
ⓝ ▲ key ..... Up key on convergence menu.
ⓞ ▼ key ..... Down key on convergence menu.

Fig. 2

2. Picture

a) 50 Hz mode (PAL) . . . . Correcting point: Horizontal 8 × Vertical 8 (Arrow marks denote correcting point)





The first picture

Crosshatch pattern. Pattern colors are three color display. Cursor is blinking in red. When changed, condition is last memory state.

Cursor is ..... Data change mode in lighting,
Cursor shifting mode in blinking.

Display color shows the color that data change is possible.

The second picture

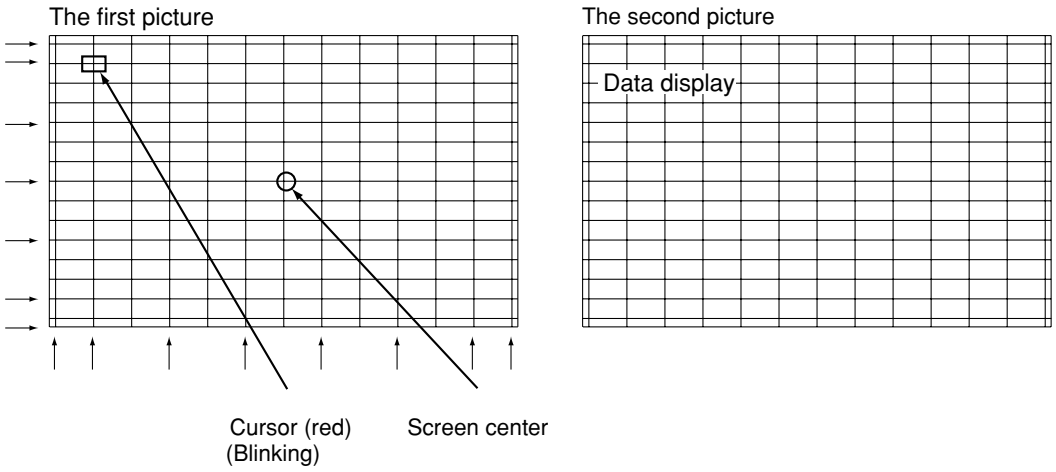
When entering from the first picture to the second picture, correcting wave of convergence is muted for one second.
During this period, the changed data is transferred from RAM Q701 to E2PROM Q713, and saved.

The second picture is indicated with data on top left of the first picture, therefore, convergence cannot be adjusted by this picture.

Caution:

- Receive suitable signal for adjustment. Centering of green picture can be done in 50 Hz mode (PAL).
- Centering of 60 Hz mode (NTSC) can be adjusted by convergence adjustment. Besides, decide the center by cross pattern of static convergence in menu, and adjust convergence from center to circumference.

b) 60 Hz mode (NTSC) . . . . Correcting point: Horizontal 8 × Vertical 7 (Arrow marks denote correcting point)



The first picture

Crosshatch pattern. Pattern colors are three color display. Cursor is blinking in red. When changed, condition is last memory state.

Cursor is ..... Data change mode in lighting,
Cursor shifting mode in blinking.

Display color shows the color that data change is possible.

The second picture

When entering from the first picture to the second picture, correcting wave of convergence is muted for one second.

During this period, the changed data is transferred from RAM Q701 to E^2PROM Q713, and saved.
The second picture is indicated with data on top left of the first picture, therefore, convergence cannot be adjusted by this picture.

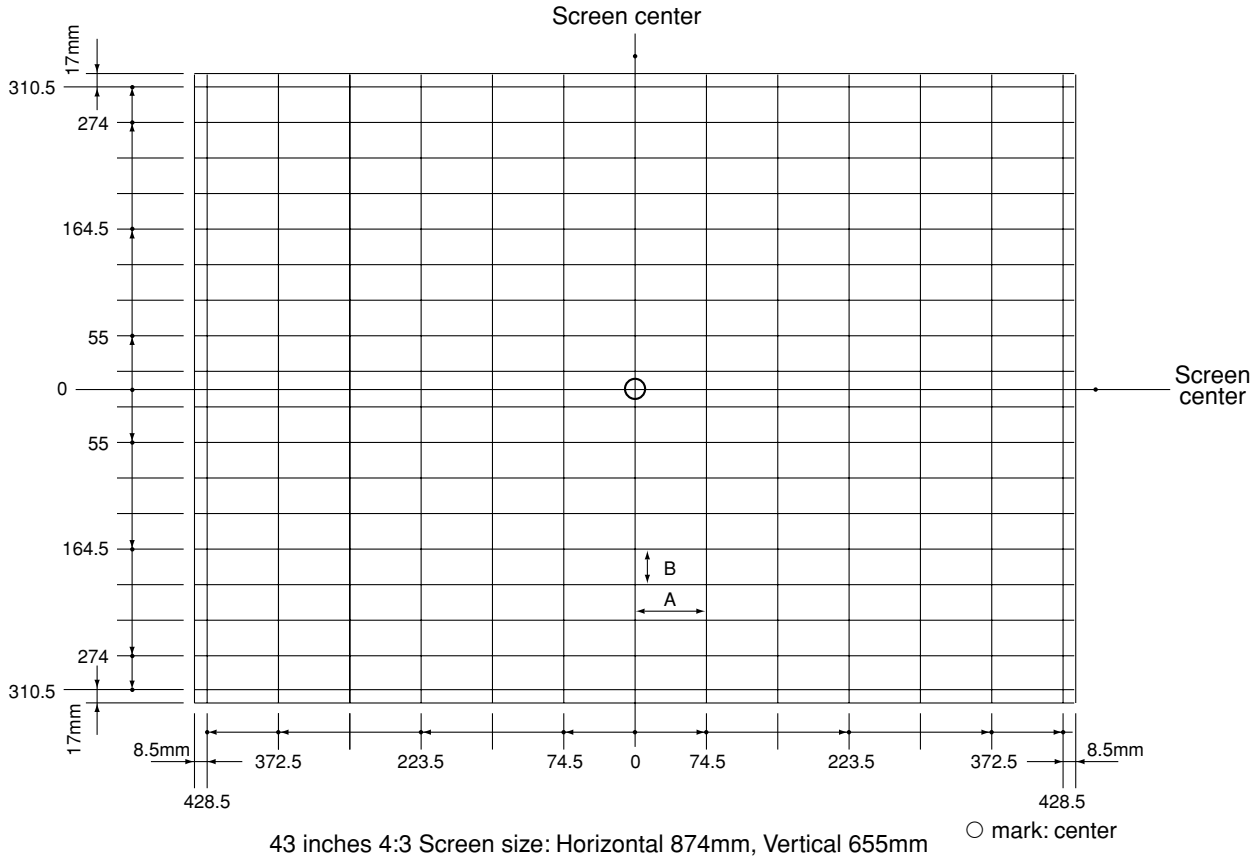
Caution:

- Receive suitable signal for adjustment. Decide the center by cross pattern of static convergence in menu, and adjust convergence from center to circumference.

3. ADJUSTING PICTURE DIMENSION (GREEN PICTURE)

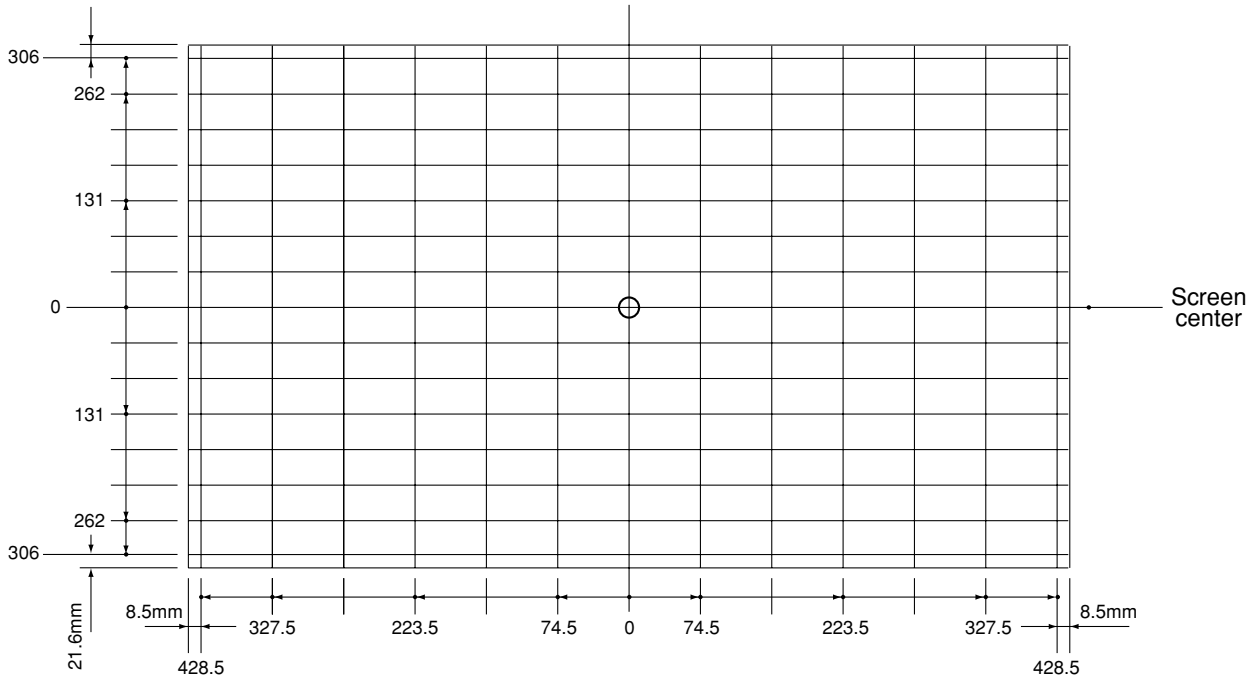
[4:3]

1.50 Hz mode (PAL)



43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 74.5mm, Dimension B: 36.5mm
(H span) (V span)

2. 60Hz mode (NTSC)

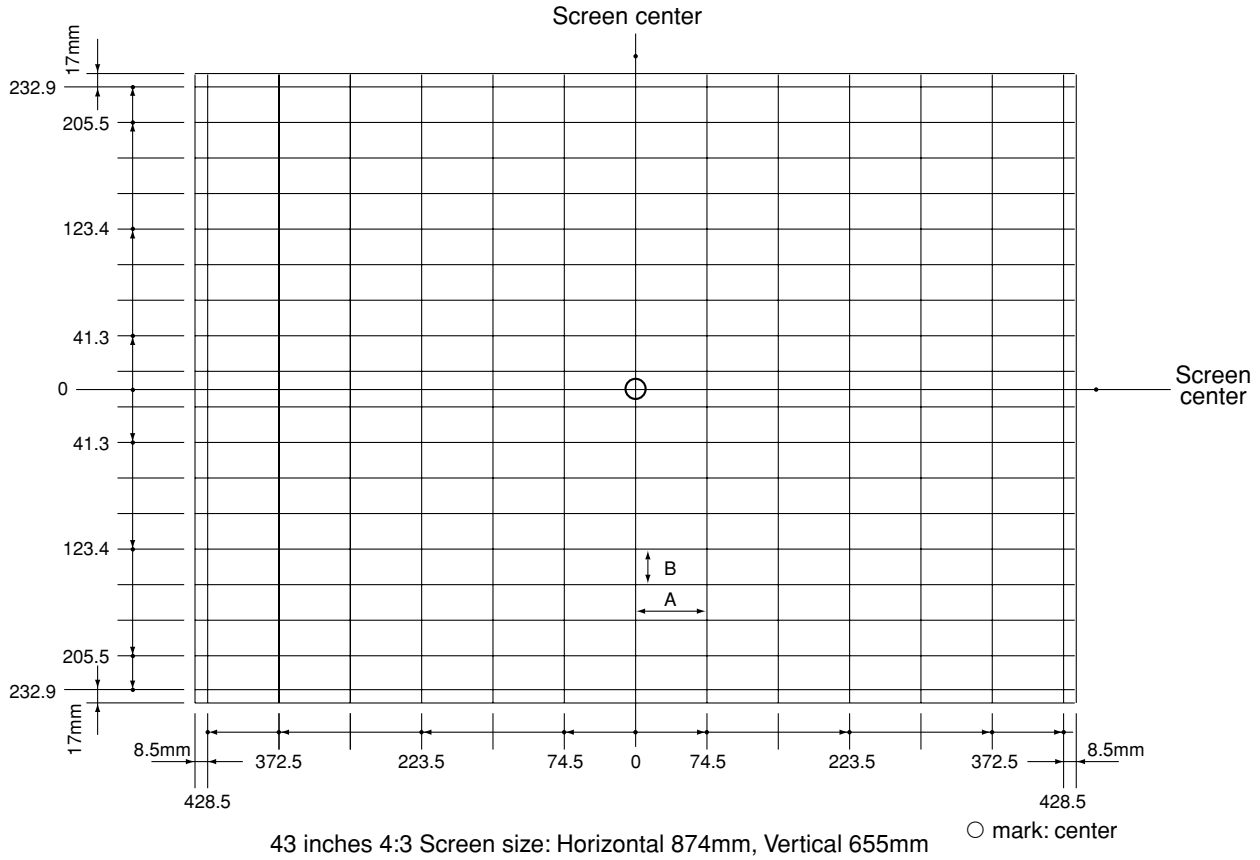


43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 74.5mm, Dimension B: 43.7mm

4. ADJUSTING PICTURE DIMENSION (GREEN PICTURE)

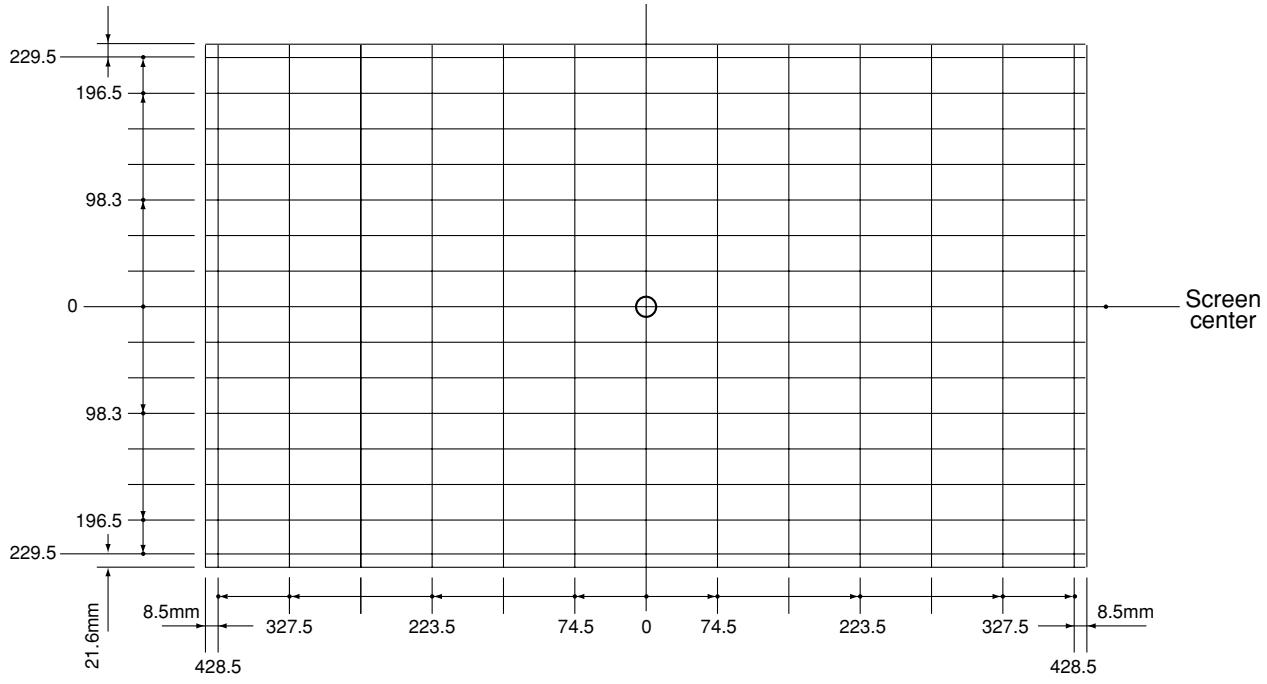
[16:9]

1.50 Hz mode (PAL)



43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 74.5mm, Dimension B: 36.5mm
(H span) (V span)

2. 60Hz mode (NTSC)



43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 74.5mm, Dimension B: 43.7mm

SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page 32.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid ..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 28)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3089AD
C440	Capacitor	2200pF, ±3%
C443	Capacitor	4700pF, ±3%
C444	Capacitor	8200pF, ±3%
C467	Capacitor	12000pF, ±5%
C468	Capacitor	12000pF, ±5%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		43"
HIGH VOLTAGE AT ZERO BEAM:	(A)	33.3 kV
MAX HIGH VOLTAGE:	(B)	34.5 kV
AC VOLTAGE	(C)	220~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	SUB CONTRAST MAX	7FH
BRTC	SUB BRIGHT CEN	80H
COLC	SUB COLOR CEN NTSC	02H
TNTC	SUB TINT CEN	20H
COLP	SUB COLOR CEN PAL	05H
COLS	SUB COLOR CEN SECAM	08H
COLD	SUB COLOR CEN DTV	41H
SCNT	SUB CONTRAST	08H
SRY	SECAM R-Y	07H
SBY	SECAM B-Y	04H
HPOS	50Hz H-POSITION	0EH

Item	Adjustment	Reference data
VPOS	V-POSITION	06H
HIT	HEIGHT	51H
GMPS	V-POSITION (RASTER)	37H
VLIN	V-LINEARITY	11H
VSC	V-S CORRECTION	08H
VPS	V-SHIFT	15H
VCP	V-COMPENSATION	02H
WID	PICTURE WIDTH	23H
PARA	E-W PARABOLA	05H
CNR	E-W CORNER	00H
TRAP	TRAPEZIUM	0BH
HCP	H-COMPENSATION	02H
VFC	V-F CORRECTION	0FH
VCEN	V-POSITION (RASTER)	60H
OPT3	DESTINATION SEL	00H/01H

Table-2

【 DESIGN MODE 】

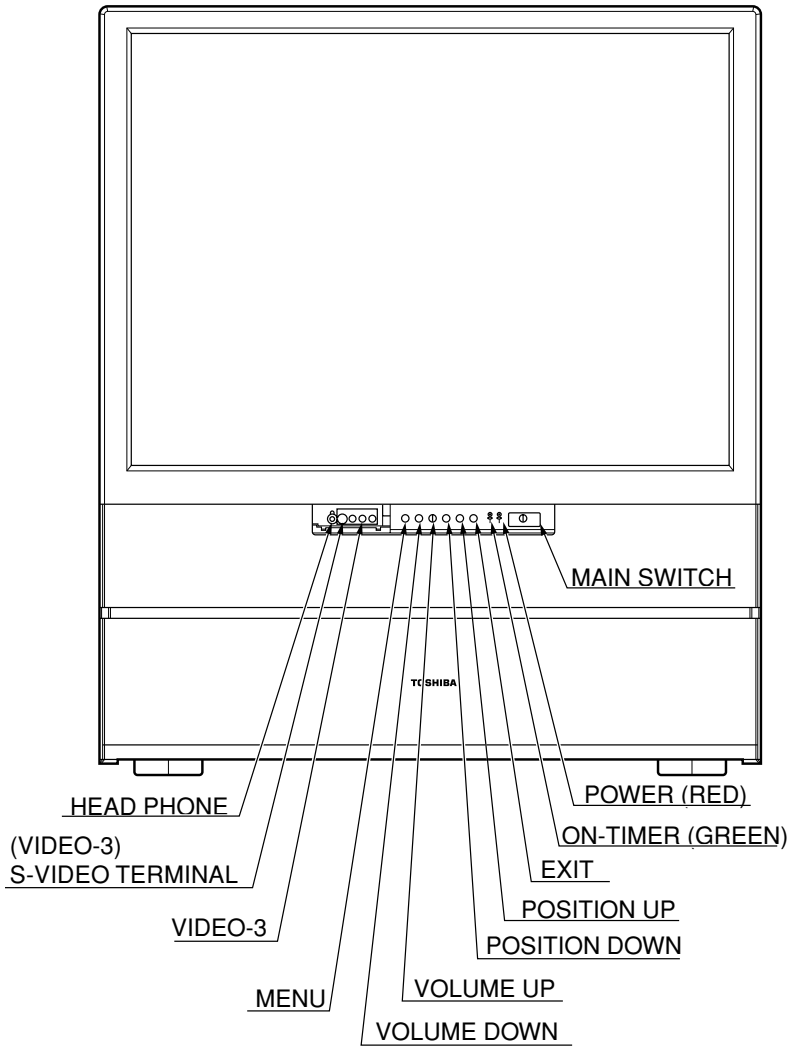
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	43"	Remarks
OPT0	OPTION 0	80H	80H	
OPT1	OPTION 1	4AH	4AH	
OPT2	OPTION 2	20H	20H	
OPT4	OPTION 4	01H	01H	

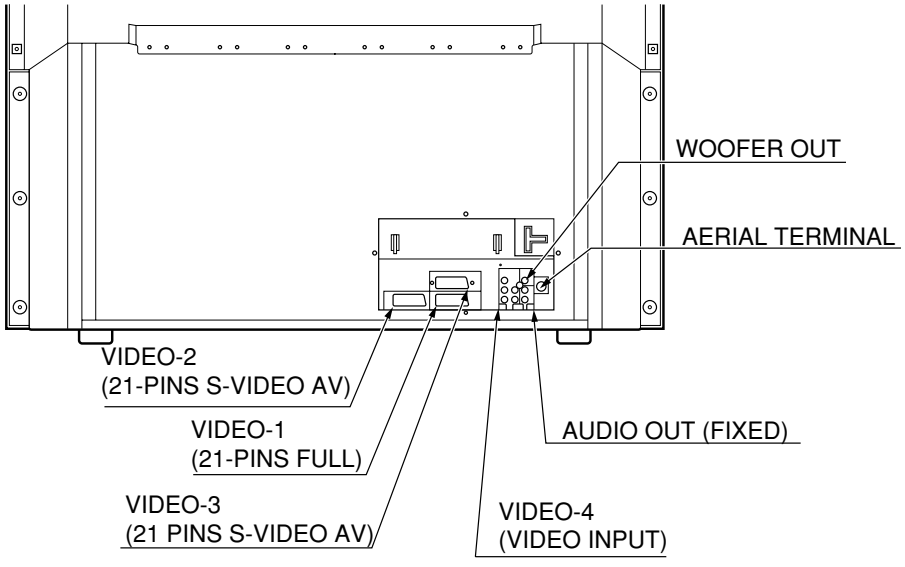
Table-3

LOCATION OF CONTROLS

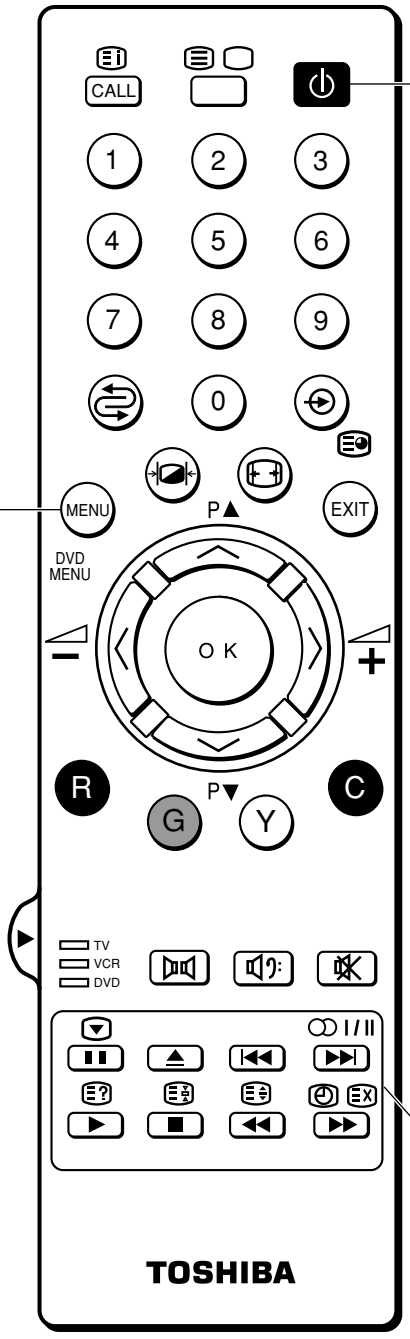
Front



Back



Remote Controller



MENU & Cursor: TV, DVD

Power Key: TV, VCR, DVD

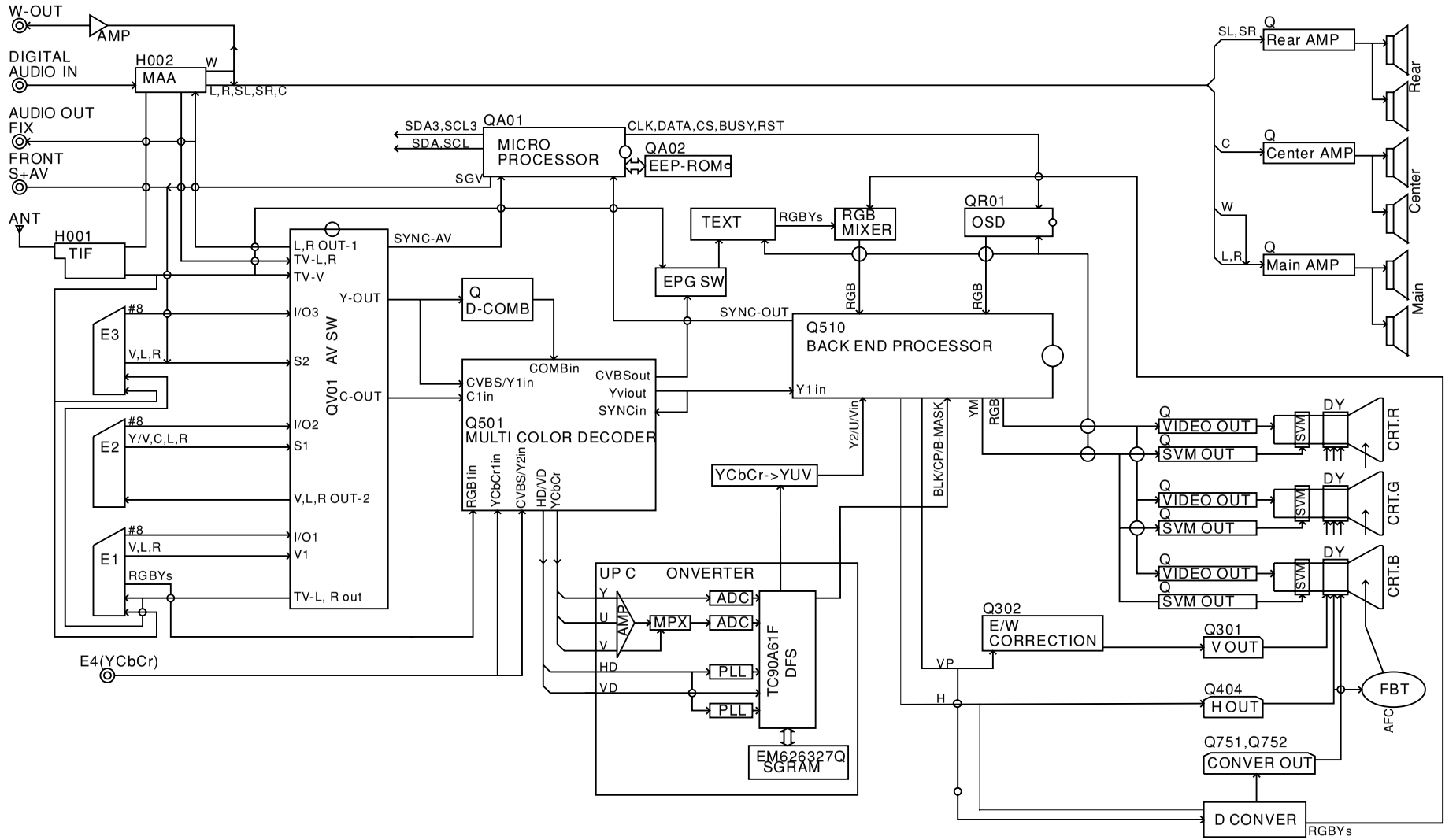
1. TEXT Sub Function
   <HOLD, REVEAL, F-T-B, TIME/TXCL, SUB PAGE>
   ---------- Only TV mode operation

2. VCR & DVD Common
   <Power, Play, Stop, Pause, Eject,
   FF, REV, Skip - FWD, Skip - REV>

3. Key Name (by special characters)
   - ---------- Power ON - Stanby
   - ---------- TEXT INDEX
   - ---------- TEXT / TV
   - ---------- VIDEO INPUT
   - ---------- SELECTABLE PICTURE
   - ---------- MUTE
   - ---------- VOLUME +, –
   - ▲P▼ ---------- POSITION(CH.) Up/Down
   - ---------- Size
   - ---------- STILL PICTURE
   - ---------- Sub Woofer
   - ---------- SURROUND
   - I/II ---------- Stereo Bilingual
   - ---------- Previous Ch.
   - i ---------- INFO.

Switched
TV Mode
VCR Mode
DVD Mode

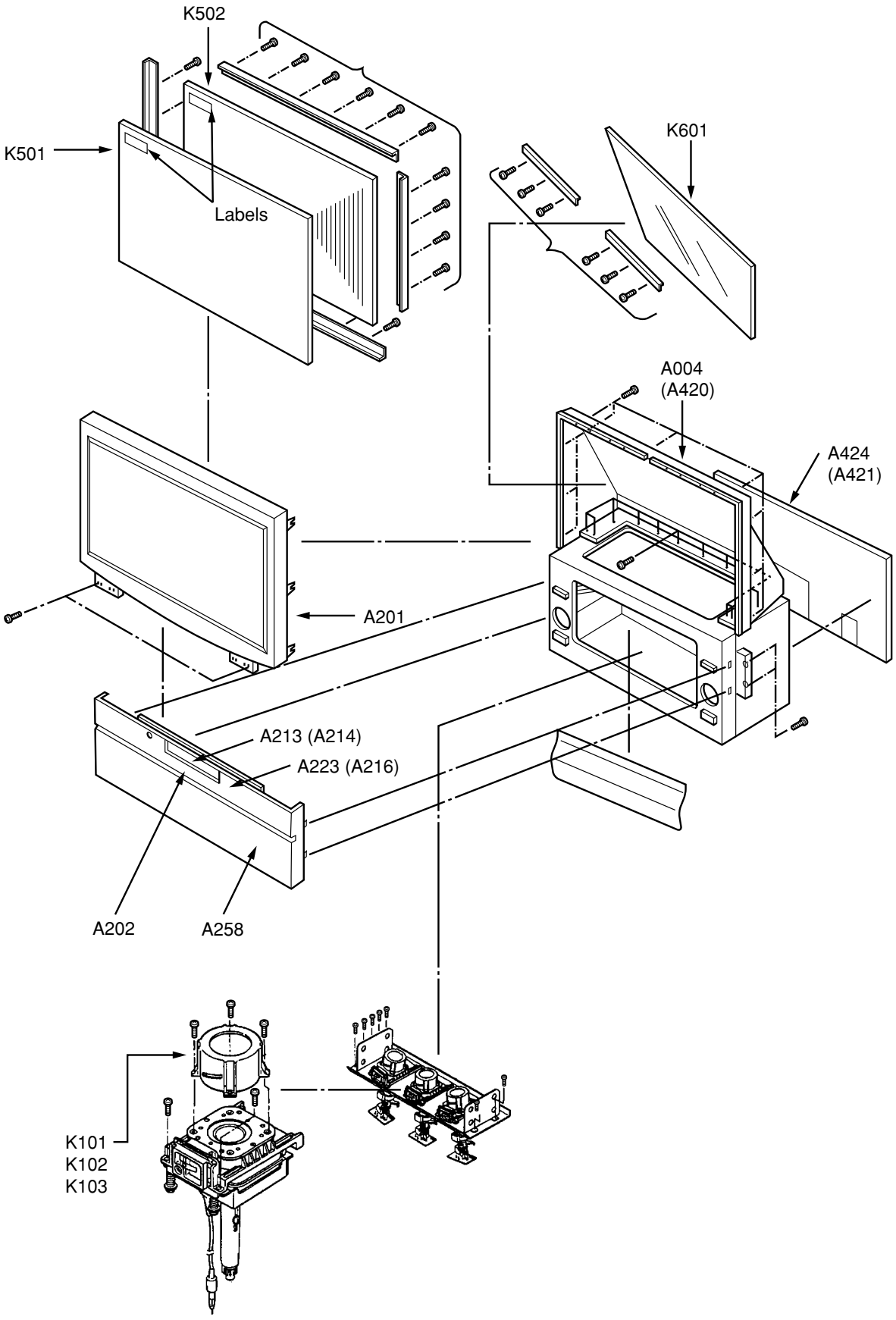
CIRCUIT BLOCK DIAGRAM



2001 Euro PJTV CIRCUIT BLOCK DIAGRAM

SPECIFIC INFORMATIONS

MECHANICAL DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE . Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Models : 43VJ13P

Location No.	Parts No.	Description
CAPACITORS		
C102	24793221	ELECTROLYTIC, 10V 220UF M
C105	24109102	CERAMIC CHIP, 50V B 1000PF K
C106	24797100	ELECTROLYTIC, 50V 10UF M
C108	24793221	ELECTROLYTIC, 10V 220UF M
C109	24109103	CERAMIC CHIP, 50V B 10000PF K
C115	24109103	CERAMIC CHIP, 50V B 10000PF K
C160	24567224	PLASTIC FILM, 50V 0.22UF J
C170	24567104	PLASTIC FILM, 50V 0.1UF J
C201	24092730	CERAMIC CHIP, 16V B 0.1UF K
C202	24109103	CERAMIC CHIP, 50V B 10000PF K
C204	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C205	24797229	ELECTROLYTIC, 50V 2.2UF M
C206	24794220	ELECTROLYTIC, 16V 22UF M
C212	24794100	ELECTROLYTIC, 16V 10UF M
C214	24503047	PLASTIC FILM, 63V 0.33UF J
C219	24105100	CERAMIC CHIP, 50V CH 10PF D
C220	24763101	ELECTROLYTIC, 16V 100UF M
C221	24105100	CERAMIC CHIP, 50V CH 10PF D
C222	24105100	CERAMIC CHIP, 50V CH 10PF D
C261	24794101	ELECTROLYTIC, 16V 100UF M
C262	24109103	CERAMIC CHIP, 50V B 10000PF K
C301	24092730	CERAMIC CHIP, 16V B 0.1UF K
C302	24092753	CERAMIC CHIP, 10V B 220NF K
C304	24092730	CERAMIC CHIP, 16V B 0.1UF K
C305	24092730	CERAMIC CHIP, 16V B 0.1UF K
C306	24105102	CERAMIC CHIP, 25V CH 1000PF J
C307	24567225	PLASTIC FILM, 50V 2.2UF J
C308	24092733	CERAMIC CHIP, 50V B 22000PF K
C309	24105102	CERAMIC CHIP, 25V CH 1000PF J
C310	24669101	ELECTROLYTIC, 50V 100UF M 3A
C311	24109103	CERAMIC CHIP, 50V B 10000PF K
C312	24105102	CERAMIC CHIP, 25V CH 1000PF J
C313	24666101	ELECTROLYTIC, 16V 100UF M 3A
C314	24092730	CERAMIC CHIP, 16V B 0.1UF K
C315	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C316	24666102	ELECTROLYTIC, 16V 1000UF M 3A
C317	24109222	CERAMIC CHIP, 50V B 2200PF K
C318	24109222	CERAMIC CHIP, 50V B 2200PF K

Location No.	Parts No.	Description
C319	24092785	CERAMIC CHIP, 10V B 0.47UF K
C320	24669101	ELECTROLYTIC, 50V 100UF M 3A
C321	24669101	ELECTROLYTIC, 50V 100UF M 3A
C322	24109473	CERAMIC CHIP, 25V B 47000PFK
C323	24109473	CERAMIC CHIP, 25V B 47000PFK
C324	24669101	ELECTROLYTIC, 50V 100UF M 3A
C325	24503045	PLASTIC FILM, 63V 0.22UF J
C326	24092785	CERAMIC CHIP, 10V B 0.47UF K
C327	24092753	CERAMIC CHIP, 10V B 220NF K
C328	24082260	PLASTIC FILM, 100V 4700PF J
C329	24669100	ELECTROLYTIC, 50V 10UF M 3A
C330	24085946	ELEC. NONPOLAR, 16V 10UF M 3A
C332	24669221	ELECTROLYTIC CE04Q 50V 220UF M 3A
C333	24693473	PLASTIC FILM, 100V 0.047UF J
C334	24109471	CERAMIC CHIP, 50V B 470PF K
C335	24092730	CERAMIC CHIP, 16V B 0.1UF K
C336	24109473	CERAMIC CHIP, 25V B 47000PFK
C338	24666330	ELECTROLYTIC, 16V 33UF M 3A
C339	24667101	ELECTROLYTIC, 25V 100UF M 3A
C340	24666330	ELECTROLYTIC, 16V 33UF M 3A
C370	24669229	ELECTROLYTIC, 50V 2.2UF M 3A
C371	24092730	CERAMIC CHIP, 16V B 0.1UF K
C401	24214821	CERAMIC DISC, 500V B 820PF K
C402	24214391	CERAMIC DISC, 500V B 390PF K
C404	24212152	CERAMIC DISC, 50V B 1500PF K
C405	24503042	PLASTIC FILM, 63V 0.12UF J
C406	24678100	ELECTROLYTIC, 200V 10UF M 3A
C412	24828683	PLASTIC FILM, 200V 68000PF J
C415	24092484	CERAMIC DISC, 2KV B 1500PF K
C416	24828333	PLASTIC FILM, 200V 33000PF J
C417	24679229	ELECTROLYTIC, 250V 2.2UF M 3A
C423	24082653	MT PLA CAP T 400V 474J
C426	24211222	CERAMIC DISC, 2KV B 2200PFK
C432	24567223	PLASTIC FILM, 50V 22000PF J
C433	24567473	PLASTIC FILM, 50V 47000PF J
C440	24082823	PLASTIC FILM, 1800VH 1500PF H
C443	24082946	PLASTIC FILM, 1500VH 4700PF H
C444	24082944	PLASTIC FILM, 1500VH 3900PF H
C445	24828473	PLASTIC FILM, 200V 47000PF J

Location No.	Parts No.	Description
C446	24679330	ELECTROLYTIC, 250V 33UF M 3A
C448	24640908	ELECTROLYTIC, 160V 33UF M 3A LI
C449	24214221	CERAMIC DISC, 500V B 220PF K
C460	24679479	ELECTROLYTIC, 250V 4.7UF M 3A
C463	24109103	CERAMIC CHIP, 50V B 10000PF K
C464	24095900	PLASTIC FILM, 100V 3.3UF K
C465	24109103	CERAMIC CHIP, 50V B 10000PF K
C466	24109472	CERAMIC CHIP, 50V B 4700PF K
C467	24820123	PLASTIC FILM, 630V 0.012UF J
C468	24820123	PLASTIC FILM, 630V 0.012UF J
C481	24666101	ELECTROLYTIC, 16V 100UF M 3A
C482	24092733	CERAMIC CHIP, 50V B 22000PF K
C483	24092733	CERAMIC CHIP, 50V B 22000PF K
C484	24109102	CERAMIC CHIP, 50V B 1000PF K
C491	24666100	ELECTROLYTIC, 10V 10UF M 3A
C497	24503049	PLASTIC FILM, 63V 0.47UF J
C498	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C501	24100104	CERAMIC CHIP, 25V F 100000PF Z
C502	24100104	CERAMIC CHIP, 25V F 100000PF Z
C503	24669470	ELECTROLYTIC, 50V 47UF M 3A
C504	24109103	CERAMIC CHIP, 50V B 10000PF K
C505	24669470	ELECTROLYTIC, 50V 47UF M 3A
C506	24109103	CERAMIC CHIP, 50V B 10000PF K
C507	24100104	CERAMIC CHIP, 25V F 100000PF Z
C508	24100104	CERAMIC CHIP, 25V F 100000PF Z
C509	24100104	CERAMIC CHIP, 25V F 100000PF Z
C511	24100104	CERAMIC CHIP, 25V F 100000PF Z
C512	24100104	CERAMIC CHIP, 25V F 100000PF Z
C513	24109103	CERAMIC CHIP, 50V B 10000PF K
C514	24794470	ELECTORLYTIC, 16V 47UF M
C516	24105100	CERAMIC CHIP, 50V CH 10PF D
C517	24797478	ELECTROLYTIC, 50V 0.47UF M
C519	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C521	24092733	CERAMIC CHIP, 50V B 22000PF K
C522	24109103	CERAMIC CHIP, 50V B 10000PF K
C523	24100104	CERAMIC CHIP, 25V F 100000PF Z
C524	24109103	CERAMIC CHIP, 50V B 10000PF K
C525	24567104	PLASTIC FILM, 50V 0.1UF J
C526	24109103	CERAMIC CHIP, 50V B 10000PF K
C527	24797229	ELECTROLYTIC, 50V 2.2UF M
C531	24100104	CERAMIC CHIP, 25V F 100000PF Z
C532	24100104	CERAMIC CHIP, 25V F 100000PF Z
C533	24100104	CERAMIC CHIP, 25V F 100000PF Z
C534	24100104	CERAMIC CHIP, 25V F 100000PF Z
C536	24100104	CERAMIC CHIP, 25V F 100000PF Z
C537	24100104	CERAMIC CHIP, 25V F 100000PF Z
C540	24100104	CERAMIC CHIP, 25V F 100000PF Z
C541	24100104	CERAMIC CHIP, 25V F 100000PF Z
C542	24100104	CERAMIC CHIP, 25V F 100000PF Z
C601	24797010	ELECTROLYTIC, 50V 1UF M
C602	24797010	ELECTROLYTIC, 50V 1UF M
C603	24591102	PLASTIC FILM, 50V 1000PF J
C604	24591102	PLASTIC FILM, 50V 1000PF J
C605	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C606	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C607	24667470	ELECTROLYTIC, 25V 47UF M 3A
C608	24667470	ELECTROLYTIC, 25V 47UF M 3A
C609	24667470	ELECTROLYTIC, 25V 47UF M 3A
C610	24669479	ELECTROLYTIC, 50V 4.7UF M 3A
C612	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C613	24503042	PLASTIC FILM, 63V 0.12UF J
C614	24503042	PLASTIC FILM, 63V 0.12UF J
C615	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C616	24669102	ELECTROLYTIC CE04Q 50V 1000UF M 3A
C617	24669220	ELECTROLYTIC, 50V 22UF M 3A

Location No.	Parts No.	Description
C618	24797478	ELECTROLYTIC, 50V 0.47UF M
C619	24794471	ELECTROLYTIC, 16V 470UF M
C621	24797220	ELECTROLYTIC, 50V 22UF M
C622	24591103	PLASTIC FILM, 50V 0.01MF J
C624	24794100	ELECTROLYTIC, 16V 10UF M
C626	24797478	ELECTROLYTIC, 50V 0.47UF M
C627	24797220	ELECTROLYTIC, 50V 22UF M
C628	24797100	ELECTROLYTIC, 50V 10UF M
C629	24591124	PLASTIC FILM, 50V 0.12UF J
C631	24797220	ELECTROLYTIC, 50V 22UF M
C633	24795221	ELECTROLYTIC, 25V 220UF M
C634	24765101	ELECTROLYITC, 35V 100UF M
C636	24797100	ELECTROLYTIC, 50V 10UF M
C639	24793101	ELECTROLYTIC, 10V 100UF M
C700	24353151	CERAMIC DISC CC45CH 50V 150PF J
C701	24105330	CERAMIC CHIP, 50V CH 33PF J
C702	24105330	CERAMIC CHIP, 50V CH 33PF J
C703	24105330	CERAMIC CHIP, 50V CH 33PF J
C704	24105330	CERAMIC CHIP, 50V CH 33PF J
C706	24100104	CERAMIC CHIP, 25V F 100000PF Z
C707	24100104	CERAMIC CHIP, 25V F 100000PF Z
C708	24100104	CERAMIC CHIP, 25V F 100000PF Z
C710	24100104	CERAMIC CHIP, 25V F 100000PF Z
C711	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C712	24105330	CERAMIC CHIP, 50V CH 33PF J
C713	24105330	CERAMIC CHIP, 50V CH 33PF J
C714	24100104	CERAMIC CHIP, 25V F 100000PF Z
C715	24092730	CERAMIC CHIP, 16V B 0.1UF K
C716	24092730	CERAMIC CHIP, 16V B 0.1UF K
C717	24105470	CERAMIC CHIP, 50V CH 47PF J
C718	24105470	CERAMIC CHIP, 50V CH 47PF J
C719	24794101	ELECTROLYTIC, 16V 100UF M
C720	24100104	CERAMIC CHIP, 25V F 100000PF Z
C721	24105070	CERAMIC CHIP CC73CH 50V 7PF D
C724	24100104	CERAMIC CHIP, 25V F 100000PF Z
C725	24100104	CERAMIC CHIP, 25V F 100000PF Z
C726	24100104	CERAMIC CHIP, 25V F 100000PF Z
C727	24100104	CERAMIC CHIP, 25V F 100000PF Z
C730	24100104	CERAMIC CHIP, 25V F 100000PF Z
C731	24100104	CERAMIC CHIP, 25V F 100000PF Z
C732	24109103	CERAMIC CHIP, 50V B 10000PF K
C735	24092730	CERAMIC CHIP, 16V B 0.1UF K
C736	24100104	CERAMIC CHIP, 25V F 100000PF Z
C739	24100104	CERAMIC CHIP, 25V F 100000PF Z
C740	24100104	CERAMIC CHIP, 25V F 100000PF Z
C741	24794470	ELECTORLYTIC, 16V 47UF M
C742	24794470	ELECTORLYTIC, 16V 47UF M
C743	24100104	CERAMIC CHIP, 25V F 100000PF Z
C744	24100104	CERAMIC CHIP, 25V F 100000PF Z
C745	24794470	ELECTORLYTIC, 16V 47UF M
C746	24794470	ELECTORLYTIC, 16V 47UF M
C747	24100104	CERAMIC CHIP, 25V F 100000PF Z
C748	24100104	CERAMIC CHIP, 25V F 100000PF Z
C749	24794470	ELECTORLYTIC, 16V 47UF M
C750	24794470	ELECTORLYTIC, 16V 47UF M
C761	24105102	CERAMIC CHIP, 25V CH 1000PF J
C762	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C763	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C765	24105102	CERAMIC CHIP, 25V CH 1000PF J
C766	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C767	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C769	24105102	CERAMIC CHIP, 25V CH 1000PF J
C770	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C771	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C772	24761221	ELECTROLYTIC CE04G 6.3V 220UF M

Location No.	Parts No.	Description
C773	24105102	CERAMIC CHIP, 25V CH 1000PF J
C774	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C775	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C777	24105102	CERAMIC CHIP, 25V CH 1000PF J
C778	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C779	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C781	24105102	CERAMIC CHIP, 25V CH 1000PF J
C782	24590562	PLASTIC FILM CQ922M 50V 5600PF J
C783	24105391	CERAMIC CHIP CC73CH 50V 390pF J
C784	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C785	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C786	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C787	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C788	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C789	24105821	CERAMIC CHIP CC73CH 25V 820PF J
C795	24761221	ELECTROLYTIC CE04G 6.3V 220UF M
C798	24763101	ELECTROLYTIC, 16V 100UF M
C799	24763101	ELECTROLYTIC, 16V 100UF M
⚠ C801	24503055	PLASTIC FILM, AC275V 0.22UF M
⚠ C802	24092569	CERAMIC DISC, AC250V E 2200PF M
C803	24092569	CERAMIC DISC, AC250V E 2200PF M
C804	24092558	CERAMIC DISC CK45B AC250V 3300PF M
C810	24086935	400V 560M35F 400V 560UF M 35F
⚠ C811	24092281	CERAMIC DISC, AC250V E 4700PF
C813	24092281	CERAMIC DISC, AC250V E 4700PF
C816	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C819	24503051	MT PLA CAP M 63V 684J
C820	24503055	PLASTIC FILM, AC275V 0.22UF M
C821	24082883	PLASTIC FILM CQ92 T 800V 22000PF J
C823	24667221	ELECTROLYTIC, 25V 220UF M 3A
C824	24667221	ELECTROLYTIC, 25V 220UF M 3A
C829	24214103	CERAMIC DISC, 500V B 10000PF K
C830	24669100	ELECTROLYTIC, 50V 10UF M 3A
C831	24073037	ELECTROLYTIC, 16V 47UF M 3A
C834	24669100	ELECTROLYTIC, 50V 10UF M 3A
C835	24073015	ELECTROLYTIC, 10V 47UF M 3A
C840	24667102	ELECTROLYTIC CE04Q 25V 1000UF M 3A
C841	24503053	PLASTIC FILM, 63V 1UF J
C842	24664101	ELECTROLYITC, 6.3V 100UF M 3A
C857	24073060	ELECTROLYTIC, 25V 4700UF M 3A
C858	24073060	ELECTROLYTIC, 25V 4700UF M 3A
C859	24073057	ELECTROLYTIC, 25V 1000UF M 3A
C863	24503045	PLASTIC FILM, 63V 0.22UF J
C864	24092474	CERAMIC DISC, 2KV B 220PF K
C866	24503049	PLASTIC FILM, 63V 0.47UF J
C867	24591682	PLASTIC FILM, 50V 6800PF J
C868	24668470	ELECTROLYTIC, 35V 47UF M 3A
C869	24678229	ELECTROLYTIC, 200V 2.2UF M 3A
C870	24082890	PLASTIC FILM, 800V 82000PF J
C871	24092484	CERAMIC DISC, 2KV B 1500PF K
C872	24092474	CERAMIC DISC, 2KV B 220PF K
C873	24503045	PLASTIC FILM, 63V 0.22UF J
C875	24212471	CERAMIC DISK CK45 B 50V 470PF K
C876	24503049	PLASTIC FILM, 63V 0.47UF J
C879	24073081	ELECTROLYTIC, 50V 1.OUF M 3A
C880	24092338	CERAMIC DISC, 2KV R 270PF K
C881	24092338	CERAMIC DISC, 2KV R 270PF K
C884	24086939	ELECTROLYTIC, 200V 330UF M22B
C890	24073096	ELECTROLYTIC, 50V 3300UF M 3A
C891	24082229	PLASTIC FILM, 250V 0.1MF D
C894	24073043	ELECTROLYTIC CE04P 16V 2200UF M 3A
C895	24073043	ELECTROLYTIC CE04P 16V 2200UF M 3A
C898	24503041	PLASTIC FILM , 63V 0.1UF J
C901	24211102	CERAMIC DISC, 2KV B 1000PF K
C902	24794100	ELECTROLYTIC, 16V 10UF M

Location No.	Parts No.	Description
C904	24436561	CERAMIC DISC, 50V SL 560PF J
C905	24214102	CERAMIC DISC, 500V B 1000PF K
C911	24211102	CERAMIC DISC, 2KV B 1000PF K
C912	24794100	ELECTROLYTIC, 16V 10UF M
C914	24436821	CERAMIC DISC CC45SL 50V 820PF J
C915	24679330	ELECTROLYTIC, 250V 33UF M 3A
C916	24794101	ELECTROLYTIC, 16V 100UF M
C921	24211102	CERAMIC DISC, 2KV B 1000PF K
C922	24794100	ELECTROLYTIC, 16V 10UF M
C926	24436681	CERAMIC DISC, 50V SL 680PF J
C941	24797478	ELECTROLYTIC, 50V 0.47UF M
C943	24667102	ELECTROLYTIC CE04Q 25V 1000UF M 3A
C944	24206100	ELECTROLYTIC, 50V 10UF M 7L 3A
C961	24666101	ELECTROLYTIC, 16V 100UF M 3A
C962	24203100	ELECTORLYTIC, 16V 10UF M 7L 3A
C964	24591104	PLASTIC FILM, 50V 0.1UF J
C3260	24092785	CERAMIC CHIP, 10V B 0.47UF K
C3301	24797229	ELECTROLYTIC, 50V 2.2UF M
C4401	24109223	CERAMIC CHIP, 25V B 22000PF K
C4402	24797229	ELECTROLYTIC, 50V 2.2UF M
C4403	24109103	CERAMIC CHIP, 50V B 10000PF K
C4404	24763102	ELECTROLYTIC, 16V 1000UF M
C4405	24109222	CERAMIC CHIP, 50V B 2200PF K
C4451	24763101	ELECTROLYTIC, 16V 100UF M
C5020	24109103	CERAMIC CHIP, 50V B 10000PF K
C5030	24763221	ELECTROLYTIC, 16V 220UF M
C5070	24109103	CERAMIC CHIP, 50V B 10000PF K
C5080	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C5090	24763101	ELECTROLYTIC, 16V 100UF M
C5100	24763101	ELECTROLYTIC, 16V 100UF M
C5200	24109102	CERAMIC CHIP, 50V B 1000PF K
C5210	24109102	CERAMIC CHIP, 50V B 1000PF K
C5220	24669010	ELECTROLYTIC, 50V 1.0UF M 3A
C7702	24105101	CERAMIC CHIP, 50V CH 100PF J
C7718	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7719	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7720	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7721	24105331	CERAMIC CHIP, 50V CH 330PF J
C7722	24105101	CERAMIC CHIP, 50V CH 100PF J
C7724	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7725	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7726	24105331	CERAMIC CHIP, 50V CH 330PF J
C7727	24105101	CERAMIC CHIP, 50V CH 100PF J
C7729	24105331	CERAMIC CHIP, 50V CH 330PF J
C7730	24105101	CERAMIC CHIP, 50V CH 100PF J
C7731	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7732	24105331	CERAMIC CHIP, 50V CH 330PF J
C7733	24105101	CERAMIC CHIP, 50V CH 100PF J
C7735	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7736	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7737	24105331	CERAMIC CHIP, 50V CH 330PF J
C7738	24105101	CERAMIC CHIP, 50V CH 100PF J
C7740	24105331	CERAMIC CHIP, 50V CH 330PF J
C7741	24105101	CERAMIC CHIP, 50V CH 100PF J
C7744	24109103	CERAMIC CHIP, 50V B 10000PF K
C7747	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7749	24567104	PLASTIC FILM, 50V 0.1UF J
C7750	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7751	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7753	24567104	PLASTIC FILM, 50V 0.1UF J
C7754	24667101	ELECTROLYTIC, 25V 100UF M 3A
C7756	24667470	ELECTROLYTIC, 25V 47UF M 3A
C7757	24567104	PLASTIC FILM, 50V 0.1UF J
C7766	24669100	ELECTROLYTIC, 50V 10UF M 3A
C7767	24073053	ELECTROLYTIC, 25V 100UF M 3A

Location No.	Parts No.	Description
C7769	24109103	CERAMIC CHIP, 50V B 10000PF K
C7774	24105331	CERAMIC CHIP, 50V CH 330PF J
C7776	24073053	ELECTROLYTIC, 25V 100UF M 3A
C7796	24073034	ELECTROLYTIC CE04P 16V 10UF M 3A
C9602	24794100	ELECTROLYTIC, 16V 10UF M
CA09	24105101	CERAMIC CHIP, 50V CH 100PF J
CA10	24105101	CERAMIC CHIP, 50V CH 100PF J
CA12	24105101	CERAMIC CHIP, 50V CH 100PF J
CA15	24105101	CERAMIC CHIP, 50V CH 100PF J
CA16	24105101	CERAMIC CHIP, 50V CH 100PF J
CA17	24105101	CERAMIC CHIP, 50V CH 100PF J
CA20	24105101	CERAMIC CHIP, 50V CH 100PF J
CA33	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA42	24794101	ELECTROLYTIC, 16V 100UF M
CA43	24109103	CERAMIC CHIP, 50V B 10000PF K
CA45	24109103	CERAMIC CHIP, 50V B 10000PF K
CA58	24794330	ELECTROLYTIC CE04G 16V 33UF M
CA67	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA68	24794100	ELECTROLYTIC, 16V 10UF M
CA69	24100103	CERAMIC CHIP, 50V F 10000PF Z
CA70	24794100	ELECTROLYTIC, 16V 10UF M
CB01	24794470	ELECTORLYTIC, 16V 47UF M
CB04	24092538	CERAMIC CHIP, 10V F 1UF Z
CB05	24109222	CERAMIC CHIP, 50V B 2200PF K
CB06	24105561	CERAMIC CHIP, 50V CH 560PF J
CB07	24109332	CERAMIC CHIP, 50V B 3300PF K
CB90	24100103	CERAMIC CHIP, 50V F 10000PF Z
CC01	24109103	CERAMIC CHIP, 50V B 10000PF K
CC10	24212221	CERAMIC DISC, 50V B 220PF K
CC26	24109103	CERAMIC CHIP, 50V B 10000PF K
CC27	24109103	CERAMIC CHIP, 50V B 10000PF K
CC33	24105101	CERAMIC CHIP, 50V CH 100PF J
CC47	24212332	CERAMIC DISC, 50V B 3300PF K
CC48	24212332	CERAMIC DISC, 50V B 3300PF K
CC60	24109223	CERAMIC CHIP, 25V B 22000PF K
CC61	24109223	CERAMIC CHIP, 25V B 22000PF K
CC62	24109102	CERAMIC CHIP, 50V B 1000PF K
CC63	24109102	CERAMIC CHIP, 50V B 1000PF K
CC64	24109223	CERAMIC CHIP, 25V B 22000PF K
CC65	24109223	CERAMIC CHIP, 25V B 22000PF K
CC66	24109102	CERAMIC CHIP, 50V B 1000PF K
CC67	24109102	CERAMIC CHIP, 50V B 1000PF K
CC68	24109102	CERAMIC CHIP, 50V B 1000PF K
CC69	24109102	CERAMIC CHIP, 50V B 1000PF K
CC70	24109102	CERAMIC CHIP, 50V B 1000PF K
CC71	24109102	CERAMIC CHIP, 50V B 1000PF K
CC72	24109102	CERAMIC CHIP, 50V B 1000PF K
CC73	24109102	CERAMIC CHIP, 50V B 1000PF K
CC74	24109102	CERAMIC CHIP, 50V B 1000PF K
CC75	24109102	CERAMIC CHIP, 50V B 1000PF K
CC76	24109102	CERAMIC CHIP, 50V B 1000PF K
CR01	24206010	ELECTROLYTIC, 50V 1.0UF M 7L 3A
CR02	24100103	CERAMIC CHIP, 50V F 10000PF Z
CR09	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR10	24794470	ELECTORLYTIC, 16V 47UF M
CR11	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR12	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR13	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR14	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR18	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR19	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR20	24100104	CERAMIC CHIP, 25V F 100000PF Z
CR99	24100104	CERAMIC CHIP, 25V F 100000PF Z
CS01	24797229	ELECTROLYTIC, 50V 2.2UF M
CS02	24797229	ELECTROLYTIC, 50V 2.2UF M

Location No.	Parts No.	Description
CS03	24797229	ELECTROLYTIC, 50V 2.2UF M
CS04	24797229	ELECTROLYTIC, 50V 2.2UF M
CS05	24797229	ELECTROLYTIC, 50V 2.2UF M
CS06	24797229	ELECTROLYTIC, 50V 2.2UF M
CS07	24797229	ELECTROLYTIC, 50V 2.2UF M
CS08	24797229	ELECTROLYTIC, 50V 2.2UF M
CS09	24797229	ELECTROLYTIC, 50V 2.2UF M
CS11	24794100	ELECTROLYTIC, 16V 10UF M
CS12	24794100	ELECTROLYTIC, 16V 10UF M
CS13	24794100	ELECTROLYTIC, 16V 10UF M
CS14	24794100	ELECTROLYTIC, 16V 10UF M
CS16	24797229	ELECTROLYTIC, 50V 2.2UF M
CS18	24794100	ELECTROLYTIC, 16V 10UF M
CS19	24794100	ELECTROLYTIC, 16V 10UF M
CS20	24797478	ELECTROLYTIC, 50V 0.47UF M
CT01	24792221	ELECTROLYTIC CE04G 6.3V 220UF M
CT02	24109103	CERAMIC CHIP, 50V B 10000PF K
CT03	24109103	CERAMIC CHIP, 50V B 10000PF K
CT04	24793101	ELECTROLYTIC, 10V 100UF M
CT05	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT06	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT07	24092538	CERAMIC CHIP, 10V F 1UF Z
CT08	24105560	CERAMIC CHIP, 50V CH 56PF J
CT09	24105560	CERAMIC CHIP, 50V CH 56PF J
CT10	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT11	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT12	24793470	ELECTROLYTIC CE04G 10V 47UF M
CT13	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT14	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT17	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT19	24794100	ELECTROLYTIC, 16V 10UF M
CT20	24109103	CERAMIC CHIP, 50V B 10000PF K
CT21	24794100	ELECTROLYTIC, 16V 10UF M
CT23	24100104	CERAMIC CHIP, 25V F 100000PF Z
CT99	24793102	ELECTROLYTIC, 10V 1000UF M
CV02	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV03	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV04	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV05	24109103	CERAMIC CHIP, 50V B 10000PF K
CV06	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV08	24763221	ELECTROLYTIC, 16V 220UF M
CV12	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV23	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L 3A
CV24	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV25	24794220	ELECTROLYTIC, 16V 22UF M
CV26	24109473	CERAMIC CHIP, 25V B 47000PFK
CV35	24109103	CERAMIC CHIP, 50V B 10000PF K
CV39	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L 3A
CV40	24109103	CERAMIC CHIP, 50V B 10000PF K
CV41	24794470	ELECTORLYTIC, 16V 47UF M
CV42	24100104	CERAMIC CHIP, 25V F 100000PF Z
CV65	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L 3A
CV66	24203101	ELECTROLYTIC CE04WS 16V 100UF M 7L 3A
CW04	24591822	PLASTIC FILM, 50V 8200PF J
CW05	24212103	CERAMIC DISC, 50V B 10000PF K
CW07	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW12	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW13	24709100	ELECTROLYTIC, 200V 10UF M
CW14	24436101	CERAMIC DISC CC45 SL 50V100PF J
CW15	24214472	CERAMIC DISK CK45 B 500V 4700PF K
CW16	24436101	CERAMIC DISC CC45 SL 50V100PF J

Location No.	Parts No.	Description
CW17	24214472	CERAMIC DISK CK45 B 500V 4700PF K
CW18	24666470	ELECTORLYTIC, 16V 47UF M 3A
CW19	24435560	CERAMIC DISC, 500V SL 56PF J
CW20	24709100	ELECTROLYTIC, 200V 10UF M
CW21	24794470	ELECTORLYTIC, 16V 47UF M
CW26	24212102	CERAMIC DISC, 50V B 1000PF K
CZ01	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ02	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ03	24092743	CERAMIC CHIP, 10V F 470NF Z
CZ04	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ05	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ06	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ07	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ08	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ09	24105220	CERAMIC CHIP, 50V CH 22PF J
CZ10	24105100	CERAMIC CHIP, 50V CH 10PF D
CZ11	24105220	CERAMIC CHIP, 50V CH 22PF J
CZ12	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ13	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ14	24794100	ELECTROLYTIC, 16V 10UF M
CZ15	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ16	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ17	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ19	24105681	CERAMIC CHIP, 50V 680PF J
CZ20	24092730	CERAMIC CHIP, 16V B 0.1UF K
CZ21	24105102	CERAMIC CHIP, 25V CH 1000PF J
CZ22	24794100	ELECTROLYTIC, 16V 10UF M
CZ23	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ24	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ25	24794100	ELECTROLYTIC, 16V 10UF M
CZ26	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ28	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ29	24109103	CERAMIC CHIP, 50V B 10000PF K
CZ30	24794100	ELECTROLYTIC, 16V 10UF M
CZ31	24100104	CERAMIC CHIP, 25V F 100000PF Z
CZ32	24105101	CERAMIC CHIP, 50V CH 100PF J
CZ33	24105330	CERAMIC CHIP, 50V CH 33PF J
CZ34	24105101	CERAMIC CHIP, 50V CH 100PF J
CZ35	24105270	CERAMIC CHIP, 50V CH 27PF J
CZ36	24105100	CERAMIC CHIP, 50V CH 10PF D

RESISTORS

R101	24382333	OXIDE METAL FILM, 1W 33K OHM J
R204	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R205	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R206	24366221	CARBON FILM, 1/6W 220 OHM J
R208	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R213	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R214	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R215	24872681	CHIP, METAL FILM, 1/16W 680 OHM J
R216	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R218	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R219	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R220	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R241	24367333	CARBON FILM, 1/6W 33K OHM G
R242	24367333	CARBON FILM, 1/6W 33K OHM G
R243	24367273	CARBON FILM, 1/6W 27K OHM G
R244	24366823	CARBON FILM, 1/6W 82K OHM J
R245	24366123	CARBON FILM, 1/6W 12K OHM J
R246	24366103	CARBON FILM, 1/6W 10K OHM J
R247	24366102	CARBON FILM, 1/6W 1K OHM J
R269	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
R270	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R271	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R272	24011103	CHIP, METAL FILM, 1/20W 10K OHM J

Location No.	Parts No.	Description
R280	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R301	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R302	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R303	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R304	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R305	24322828	OXIDE METAL FILM, 1W 0.82 OHM J
R306	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R307	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R308	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R310	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R311	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R312	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R313	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R314	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R315	24011821	CHIP, METAL FILM, 1/20W 820 OHM J
R316	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R317	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R318	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
R320	24000249	METAL FILM, 1/4W 47K OHM F
R321	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R322	24000639	METAL FILM, 1/4W 22K OHM F
R323	24000529	METAL FILM, 1/4W 6.8K OHM F
R324	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R325	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R326	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R327	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R328	24000633	METAL FILM, 1/4W 10K OHM F
R329	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R330	24000221	METAL FILM, 1/4W 20K OHM F
R331	24019119	METAL FILM, 1/6W 30K OHM J
R332	24000525	METAL FILM, 1/4W 4.7K OHM F
R333	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R334	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R335	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R336	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R337	24321129	OXIDE METAL FILM, 1/2W 1.2 OHM J
R338	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R339	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R340	24011824	CHIP, METAL FILM, 1/20W 820K OHM J
R341	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R342	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R343	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R344	24382271	OXIDE METAL FILM, 1W 270 OHM J
R346	24382391	OXIDE METAL FILM, 1W 390 OHM J
R347	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R348	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R349	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R350	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R355	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R360	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R361	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R362	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R363	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R364	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R365	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R370	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R371	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R372	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R373	24011823	CHIP, METAL FILM, 1/20W 82K OHM J
R374	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R375	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R376	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R377	24000824	JUMPER CHIP, 2125TYPE
R378	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R390	24382561	OXIDE METAL FILM, 1W 560 OHM J

Location No.	Parts No.	Description
R391	24382561	OXIDE METAL FILM, 1W 560 OHM J
R392	24382561	OXIDE METAL FILM, 1W 560 OHM J
R401	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R402	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R403	24553272	OXIDE METAL FILM, 1W 2.7K OHM J
R404	24366332	CARBON FILM, 1/6W 3.3K OHM J
R405	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R406	24382472	OXIDE METAL FILM, 1W 4.7K OHM J
R407	24381100	OXIDE METAL FILM, 1/2W 10 OHM J
R408	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R409	24555220	OXIDE METAL FILM, 3W 22 OHM J
R410	24555220	OXIDE METAL FILM, 3W 22 OHM J
R411	24383270	OXIDE METAL FILM, 2W 27 OHM J
R412	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R413	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R414	24366100	CARBON FILM, 1/6W 10 OHM J
R415	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R416	24384682	OXIDE METAL FILM, 3W 6.8K OHM J
R417	24019292	FUSIBLE, 1/2W 68 OHM J
R418	24382104	OXIDE METAL FILM, 1W 100K OHM J
R419	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R420	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R421	24366223	CARBON FILM, 1/6W 22K OHM J
R422	24366223	CARBON FILM, 1/6W 22K OHM J
R431	24383102	OXIDE METAL FILM, 2W 1K OHM J
R432	24376274	CARBON FILM, 1/2W 270K OHM J
R433	24376274	CARBON FILM, 1/2W 270K OHM J
R434	24376274	CARBON FILM, 1/2W 270K OHM J
R435	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R441	24383102	OXIDE METAL FILM, 2W 1K OHM J
R443	24310109	OXIDE METAL FILM, 1/2W 1 OHM J
R444	24338398	OXIDE METAL FILM, 1W 0.39 OHM J
R445	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R446	24366103	CARBON FILM, 1/6W 10K OHM J
R447	24382473	OXIDE METAL FILM, 1W 47K OHM J
R448	24366334	CARBON FILM, 1/6W 330K OHM J
R449	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R455	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R460	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R461	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R462	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R463	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R464	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R465	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R466	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R467	24011683	CHIP, METAL FILM, 1/20W 68K OHM J
R468	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R469	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R470	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R470	24323568	OXIDE METAL FILM, 2W 0.56 OHM J
R471	24552271	OXIDE METAL FILM, 1/2W 270 OHM J
R472	24552151	OXIDE METAL FILM, 1/2W 150 OHM J
R473	24327223	METAL FILM, 1/4W 22K OHM F
R474	24327223	METAL FILM, 1/4W 22K OHM F
R475	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R475	24366102	CARBON FILM, 1/6W 1K OHM J
R476	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R477	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R478	24011474	CHIP, METAL FILM, 1/20W 470K OHM J
R479	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R480	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R481	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R482	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
R488	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R489	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J

Location No.	Parts No.	Description
R490	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R491	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R492	24000370	METAL FILM, 1/4W 3.3K OHM F
R493	24000137	METAL FILM, 1/4W 150 OHM F
R494	24000364	METAL FILM, 1/4W 1.8K OHM F
R495	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R496	24366103	CARBON FILM, 1/6W 10K OHM J
R497	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R498	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R501	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R502	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R504	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R505	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R506	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
R507	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
R508	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R511	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R512	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R513	24366101	CARBON FILM, 1/6W 100 OHM J
R514	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R515	24366103	CARBON FILM, 1/6W 10K OHM J
R516	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R517	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R518	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R520	24366681	CARBON FILM, 1/6W 680 OHM J
R522	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R523	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R524	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R525	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R526	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R527	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R528	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R529	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R530	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
R543	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R548	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R553	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
R601	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R602	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R603	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R604	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R605	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R606	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R607	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R608	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R609	24366229	CARBON FILM, 1/6W 2.2 OHM J
R610	24366229	CARBON FILM, 1/6W 2.2 OHM J
R611	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R613	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R614	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R615	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R616	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R617	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R618	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R619	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R620	24552122	OXIDE METAL FILM, 1/2W 1.2K OHM J
R621	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R622	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R623	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R624	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R625	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
R626	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R627	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R628	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J

Location No.	Parts No.	Description
R629	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R630	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
R631	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
R632	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R633	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R634	24011822	CHIP, METAL FILM, 1/20W 8.2K OHM J
R635	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
R636	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R637	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R641	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R642	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R643	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R644	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
R645	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
R646	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R647	24872822	CHIP, METAL FILM, 1/16W 8.2K OHM J
R688	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R690	24552391	OXIDE METAL FILM, 1/2W 390 OHM J
R701	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R702	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R703	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R704	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R707	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R708	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R709	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R710	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R711	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R712	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R713	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R714	24872100	CHIP, METAL FILM, 1/16W 10 OHM J
R716	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R718	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R720	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R721	24872103	CHIP, METAL FILM, 1/16W 10K OHM J
R722	24872561	CHIP, METAL FILM, 1/16W 560 OHM J
R723	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
R724	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
R725	24872102	CHIP, METAL FILM, 1/16W 1K OHM J
R727	24872222	CHIP, METAL FILM, 1/16W 2.2K OHM J
R728	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R729	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R730	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R731	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R732	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R733	24872473	CHIP, METAL FILM, 1/16W 47K OHM J
R734	24872221	CHIP, METAL FILM, 1/16W 220 OHM J
R735	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R736	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R737	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R738	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R739	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R740	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R741	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R742	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R743	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R744	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R745	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R746	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R747	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R748	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R749	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R750	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R751	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R752	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R753	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J

Location No.	Parts No.	Description
R754	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R755	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R756	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R757	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R758	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R759	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R760	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R761	24872911	CHIP, METAL FILM, 1/16W 910 OHM J
R762	24872152	CHIP, METAL FILM, 1/16W 1.5K OHM J
R763	24872332	CHIP, METAL FILM, 1/16W 3.3K OHM J
R764	24872362	CHIP, METAL FILM, 1/16W 3.6K OHM J
R778	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R779	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R780	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R781	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R782	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R783	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R786	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R787	24872472	CHIP, METAL FILM, 1/16W 4.7K OHM J
R790	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R791	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R792	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R793	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R794	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R795	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R796	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R797	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R798	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
R799	24872101	CHIP, METAL FILM, 1/16W 100 OHM J
⚠ R801	24005015	METAL GLAZE, 1W 8.2M OHM J
R810	24510152	CERAMIC COVERED G 5W 1.5K J
R814	24366102	CARBON FILM, 1/6W 1K OHM J
R815	24366102	CARBON FILM, 1/6W 1K OHM J
R816	24366102	CARBON FILM, 1/6W 1K OHM J
R817	24366102	CARBON FILM, 1/6W 1K OHM J
R818	24366471	CARBON FILM, 1/6W 470 OHM J
R819	24009954	METAL FILN, 1/2W 2.2M OHM J
R820	24327153	METAL FILM, 1/4W 15K OHM J
R821	24327123	METAL FILM, 1/4W 12K OHM F
R822	24327123	METAL FILM, 1/4W 12K OHM F
R823	24327123	METAL FILM, 1/4W 12K OHM F
R824	24366102	CARBON FILM, 1/6W 1K OHM J
R830	24366333	CARBON FILM, 1/6W 33K OHM J
R840	24366473	CARBON FILM, 1/6W 47K OHM J
R842	24366222	CARBON FILM, 1/6W 2.2K OHM J
R843	24366103	CARBON FILM, 1/6W 10K OHM J
R861	24555333	OXIDE RES B 3W 333J
R862	24321689	METAL FILM, 1/2W 6.8 OHM J
R864	24552102	OXIDE METAL FILM, 1/2W 1K OHM J
R865	24545109	FUSIBLE, 1/4W 1 OHM J
R866	24552470	OXIDE METAL FILM, 1/2W 47 OHM J
R867	24367563	CARBON FILM, 1/6W 56K OHM G
R868	24552560	OXIDE METAL FILM, 1/2W 56 OHM J
R870	24552121	OXIDE METAL FILM, 1/2W 120 OHM J
R871	24553680	OXIDE METAL FILM, 1W 68 OHM J
R872	24377224	CARBON FILM, 1W 220K OHM J
R883	24381683	OXIDE METAL FILM, 1/2W 68K OHM J
R884	24366102	CARBON FILM, 1/6W 1K OHM J
R885	24545109	FUSIBLE, 1/4W 1 OHM J
R891	24366152	CARBON FILM, 1/6W 1.5K OHM J
R901	24366471	CARBON FILM, 1/6W 470 OHM J
R903	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R905	24366390	CARBON FILM, 1/6W 39 OHM J
R906	24366621	CARBON FILM, 1/6W 620 OHM J
R908	24366560	CARBON FILM, 1/6W 56 OHM J

Location No.	Parts No.	Description
R909	24366121	CARBON FILM, 1/6W 120 OHM J
R911	24366471	CARBON FILM, 1/6W 470 OHM J
R913	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R915	24366330	CARBON FILM, 1/6W 33 OHM J
R916	24366621	CARBON FILM, 1/6W 620 OHM J
R918	24366430	CARBON FILM, 1/6W 43 OHM J
R921	24366471	CARBON FILM, 1/6W 470 OHM J
R923	24942102	CARBON COMPOSITION, 1/2W 1K OHM J
R925	24366121	CARBON FILM, 1/6W 120 OHM J
R926	24366621	CARBON FILM, 1/6W 620 OHM J
R928	24366680	CARBON FILM, 1/6W 68 OHM J
R931	24555153	OXIDE METAL FILM, 3W 15K OHM J
R932	24555153	OXIDE METAL FILM, 3W 15K OHM J
R934	24000887	FUSIBLE, 1W 2.2 OHM J
R935	24366150	CARBON FILM, 1/6W 15 OHM J
R936	24366330	CARBON FILM, 1/6W 33 OHM J
R941	24555153	OXIDE METAL FILM, 3W 15K OHM J
R942	24555153	OXIDE METAL FILM, 3W 15K OHM J
R943	24366103	CARBON FILM, 1/6W 10K OHM J
R944	24366150	CARBON FILM, 1/6W 15 OHM J
R945	24366680	CARBON FILM, 1/6W 68 OHM J
R946	24366330	CARBON FILM, 1/6W 33 OHM J
R949	24366101	CARBON FILM, 1/6W 100 OHM J
R951	24555153	OXIDE METAL FILM, 3W 15K OHM J
R952	24555153	OXIDE METAL FILM, 3W 15K OHM J
R953	24366390	CARBON FILM, 1/6W 39 OHM J
R956	24366102	CARBON FILM, 1/6W 1K OHM J
R957	24366330	CARBON FILM, 1/6W 33 OHM J
R961	24366102	CARBON FILM, 1/6W 1K OHM J
R962	24366361	CARBON FILM, 1/6W 360 OHM J
R964	24366332	CARBON FILM, 1/6W 3.3K OHM J
R965	24366471	CARBON FILM, 1/6W 470 OHM J
R966	24366821	CARBON FILM, 1/6W 820 OHM J
R967	24366102	CARBON FILM, 1/6W 1K OHM J
R968	24366680	CARBON FILM, 1/6W 68 OHM J
R969	24366103	CARBON FILM, 1/6W 10K OHM J
R970	24366222	CARBON FILM, 1/6W 2.2K OHM J
R971	24367152	CARBON FILM, 1/6W 1.5K OHM G
R972	24367471	CARBON FILM, 1/6W 470 OHM G
R973	24367681	CARBON FILM, 1/6W 680 OHM G
R974	24367681	CARBON FILM, 1/6W 680 OHM G
R975	24366242	CARBON FILM, 1/6W 2.4K OHM J
R976	24367562	CARBON FILM, 1/6W 5.6K OHM G
R977	24367472	CARBON FILM, 1/6W 4.7K OHM G
R978	24367681	CARBON FILM, 1/6W 680 OHM G
R4401	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
R4402	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4403	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4404	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
R4405	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
R4406	24011274	CHIP, METAL FILM, 1/20W 270K OHM J
R4407	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R4408	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4409	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
R4422	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R4451	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R4452	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R4453	24011272	CHIP, METAL FILM, 1/20W 2.7K OHM J
R4454	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R4471	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R4472	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
R5020	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R5030	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
R7707	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7708	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J

Location No.	Parts No.	Description
R7709	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7710	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7711	24547189	FUSIBLE, 1W 1.8 OHM J
R7712	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7713	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7714	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7715	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7716	24547189	FUSIBLE, 1W 1.8 OHM J
R7717	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7718	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7719	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7720	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7721	24547189	FUSIBLE, 1W 1.8 OHM J
R7722	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7723	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7724	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7725	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7726	24547189	FUSIBLE, 1W 1.8 OHM J
R7727	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7728	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7729	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7730	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7731	24547189	FUSIBLE, 1W 1.8 OHM J
R7732	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7733	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7734	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7735	24383680	OXIDE METAL FILM, 2W 68 OHM J
R7736	24547189	FUSIBLE, 1W 1.8 OHM J
R7766	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
R7767	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R7773	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7777	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7779	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7780	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
R7781	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
R7795	24000445	CHIP JUMPER, 1608TYPE
R7796	24000445	CHIP JUMPER, 1608TYPE
R7797	24000445	CHIP JUMPER, 1608TYPE
R7798	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7799	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7845	24011221	CHIP, METAL FILM, 1/20W 220 OHM J
R7846	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
R7847	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7848	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7849	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7850	24011224	CHIP, METAL FILM, 1/20W 220K OHM J
R7851	24011153	CHIP, METAL FILM, 1/2OW 15K OHM J
R7852	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
R7853	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7854	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7863	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7864	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7866	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7867	24011154	CHIP, METAL FILM, 1/20W 150K OHM J
R7890	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7891	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R7895	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
R9601	24366471	CARBON FILM, 1/6W 470 OHM J
R9602	24366362	CARBON FILM, 1/6W 3.6K OHM J
R9603	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9604	24366272	CARBON FILM, 1/6W 2.7K OHM J
R9605	24366682	CARBON FILM, 1/6W 6.8K OHM J
R9606	24366392	CARBON FILM, 1/6W 3.9K OHM J
R9613	24366680	CARBON FILM, 1/6W 68 OHM J
R9614	24366390	CARBON FILM, 1/6W 39 OHM J

Location No.	Parts No.	Description
R9615	24366101	CARBON FILM, 1/6W 100 OHM J
R9616	24366102	CARBON FILM, 1/6W 1K OHM J
RA01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA02	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA07	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA08	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA09	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA10	24011682	CHIP, METAL FILM, 1/20W 6.8K OHM J
RA11	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA12	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA16	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA17	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA19	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA20	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA21	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA22	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RA23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA24	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA25	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA27	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA30	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA33	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA38	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RA39	24000445	CHIP JUMPER, 1608TYPE
RA43	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA50	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA60	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA601	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA602	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RA609	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA65	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA66	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA67	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA68	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RA70	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA71	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA71	24366683	CARBON FILM, 1/6W 68K OHM J
RA72	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA72	24366223	CARBON FILM, 1/6W 22K OHM J
RA73	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RA73	24366103	CARBON FILM, 1/6W 10K OHM J
RA75	24011333	CHIP, METAL FILM, 1/20W 33K OHM J
RA76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RA76	24366103	CARBON FILM, 1/6W 10K OHM J
RA77	24366223	CARBON FILM, 1/6W 22K OHM J
RA78	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RA78	24366683	CARBON FILM, 1/6W 68K OHM J
RA89	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RB01	24366271	CARBON FILM, 1/6W 270 OHM J
RB02	24366471	CARBON FILM, 1/6W 470 OHM J
RB04	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RB05	24011105	CHIP, METAL FILM, 1/20W 1M OHM J
RB06	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB07	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB08	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J

Location No.	Parts No.	Description
RB09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB09	24366470	CARBON FILM, 1/6W 47 OHM J
RB10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB10	24366101	CARBON FILM, 1/6W 100 OHM J
RB11	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB11	24366103	CARBON FILM, 1/6W 10K OHM J
RB12	24366471	CARBON FILM, 1/6W 470 OHM J
RB39	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB43	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB45	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RB60	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RB81	24011122	CHIP, METAL FILM, 1/20W 1.2K OHM J
RB82	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB83	24011123	CHIP, METAL FILM, 1/20W 12K OHM J
RB90	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RB91	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RB92	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB93	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RB94	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB95	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RB96	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB97	24011273	CHIP, METAL FILM, 1/20W 27K OHM J
RB98	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RB604	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RC01	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC02	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC03	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC04	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC05	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC06	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC07	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC08	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RC60	24366681	CARBON FILM, 1/6W 680 OHM J
RC61	24366681	CARBON FILM, 1/6W 680 OHM J
RR01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR02	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RR03	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR04	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RR05	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR06	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RR07	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR09	24000445	CHIP JUMPER, 1608TYPE
RR10	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR11	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RR12	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR13	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR15	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR16	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR17	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RR18	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR22	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR23	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RR35	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR36	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR37	24011392	CHIP, METAL FILM, 1/20W 3.9K OHM J
RR40	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR48	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR61	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RR63	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR64	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR65	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR68	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR69	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR70	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR74	24011102	CHIP, METAL FILM, 1/20W 1K OHM J

Location No.	Parts No.	Description
RR75	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR85	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RR86	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RR87	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RR88	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RS01	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS02	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS03	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS04	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS05	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS06	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS07	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS08	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS09	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS10	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS11	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS12	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RS13	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS14	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RS15	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS16	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS17	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS19	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS20	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS21	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RS23	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS24	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS25	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS26	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS27	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS28	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS29	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS30	24011681	CHIP, METAL FILM, 1/20W 680 OHM J
RS31	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS32	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS33	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS34	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS49	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS50	24011271	CHIP, METAL FILM, 1/20W 270 OHM J
RS51	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS52	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RS53	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS54	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RS55	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RS56	24011104	CHIP, METAL FILM, 1/20W 100K OHM J
RT01	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT02	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT03	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT05	24011100	CHIP, METAL FILM, 1/20W 10 OHM J
RT06	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT07	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT08	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT09	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT10	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT11	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT12	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT15	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT16	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT18	24011223	CHIP, METAL FILM, 1/20W 22K OHM J
RT19	24000445	CHIP JUMPER, 1608TYPE

Location No.	Parts No.	Description
RT20	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT21	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RT22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT23	24000445	CHIP JUMPER, 1608TYPE
RT24	24000594	RESISTOR CHIP 1/16W 123F
RT26	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT27	24000594	RESISTOR CHIP 1/16W 123F
RT28	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT30	24011473	CHIP, METAL FILM, 1/20W 47K OHM J
RT31	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT32	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RT33	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
RT34	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RT35	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RT37	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RT38	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT39	24011561	CHIP, METAL FILM, 1/20W 560 OHM J
RT40	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT42	24011470	CHIP, METAL FILM, 1/20W 47 OHM J
RT43	24011151	CHIP, METAL FILM, 1/20W 150 OHM J
RT44	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV07	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV08	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV09	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV10	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV22	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV23	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV24	24011181	CHIP, METAL FILM, 1/20W 180 OHM J
RV25	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV26	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV27	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV28	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV29	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV30	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV32	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV33	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV34	24011562	CHIP, METAL FILM, 1/20W 5.6K OHM J
RV37	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV38	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV40	24011332	CHIP, METAL FILM, 1/20W 3.3K OHM J
RV41	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV42	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV43	24011152	CHIP, METAL FILM, 1/20W 1.5K OHM J
RV44	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV45	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RV46	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV61	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV62	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV63	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV64	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV65	24552101	OXIDE METAL FILM, 1/2W 100 OHM J
RV66	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV67	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RV68	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RV76	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
RV81	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV85	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV86	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV87	24872750	CHIP, METAL FILM, 1/16W 75 OHM J
RV88	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV89	24872151	CHIP, METAL FILM, 1/16W 150 OHM J
RV94	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV95	24011750	CHIP, METAL FILM, 1/20W 75 OHM J
RV96	24011750	CHIP, METAL FILM, 1/20W 75 OHM J

Location No.	Parts No.	Description
RW02	24366271	CARBON FILM, 1/6W 270 OHM J
RW09	24366563	CARBON FILM, 1/6W 56K OHM J
RW13	24366393	CARBON FILM, 1/6W 39K OHM J
RW14	24552121	OXIDE METAL FILM, 1/2W 120 OHM J
RW15	24366473	CARBON FILM, 1/6W 47K OHM J
RW16	24366273	CARBON FILM, 1/6W 27K OHM J
RW17	24366333	CARBON FILM, 1/6W 33K OHM J
RW18	24366101	CARBON FILM, 1/6W 100 OHM J
RW19	24366100	CARBON FILM, 1/6W 10 OHM J
RW20	24366392	CARBON FILM, 1/6W 3.9K OHM J
RW22	24366102	CARBON FILM, 1/6W 1K OHM J
RW23	24366101	CARBON FILM, 1/6W 100 OHM J
RW24	24366331	CARBON FILM, 1/6W 330 OHM J
RW25	24366182	CARBON FILM, 1/6W 1.8K OHM J
RW30	24552100	OXIDE METAL FILM, 1/2W 10 OHM J
RW31	24552331	OXIDE METAL FILM, 1/2W 330 OHM J
RW32	24366820	CARBON FILM, 1/6W 82 OHM J
RW33	24366683	CARBON FILM, 1/6W 68K OHM J
RW34	24366820	CARBON FILM, 1/6W 82 OHM J
RW35	24366683	CARBON FILM, 1/6W 68K OHM J
RW36	24366330	CARBON FILM, 1/6W 33 OHM J
RW37	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW38	24366102	CARBON FILM, 1/6W 1K OHM J
RW39	24366152	CARBON FILM, 1/6W 1.5K OHM J
RW40	24366330	CARBON FILM, 1/6W 33 OHM J
RW41	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW42	24366279	CARBON FILM, 1/6W 2.7 OHM J
RW43	24554221	OXIDE METAL FILM, 2W 220 OHM J
RW44	24366122	CARBON FILM, 1/6W 1.2K OHM J
RW45	24366122	CARBON FILM, 1/6W 1.2K OHM J
RZ01	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ02	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ03	24011222	CHIP, METAL FILM, 1/20W 2.2K OHM J
RZ04	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ05	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ06	24011331	CHIP, METAL FILM, 1/20W 330 OHM J
RZ08	24011471	CHIP, METAL FILM, 1/20W 470 OHM J
RZ13	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ14	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ15	24011102	CHIP, METAL FILM, 1/20W 1K OHM J
RZ17	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RZ18	24011391	CHIP, METAL FILM, 1/20W 390 OHM J
RZ29	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
RZ30	24011101	CHIP, METAL FILM, 1/20W 100 OHM J
COILS & TRANSFORMERS		
L101	23221803	COIL, CHOKE, TLN3040D
L201	23289840	COIL, PEAKING, TRF4100AT
L302	23248073	COIL, CHOKE, TLN3299D
L303	23248073	COIL, CHOKE, TLN3299D
L304	23103859	COIL, CHOKE, TEM2011
L310	23237975	COIL, PEAKING, TRF4101AC
L311	23237975	COIL, PEAKING, TRF4101AC
L401	23289560	COIL, PEAKING, TRF4560AF
L402	23248244	COIL, CHOKE, TLN3497AH
L404	23248242	COIL, CHOKE, TLN3495AH
L405	23221076	COIL, HORIZ/RF CHOKE, TLN1015R
L406	23248243	COIL, CHOKE, TLN3496AH
L407	23103775	COIL, FERRITE CHOKE, TEM2014
L408	23103775	COIL, FERRITE CHOKE, TEM2014
L409	23237975	COIL, PEAKING, TRF4101AC
L441	23233052	COIL, HORIZ. LINEARITY TLN2203AT
L462	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L463	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)
L464	23231220	COIL, DY&CONVER MIX YOKE, TDY707JT(R)

Location No.	Parts No.	Description
L472	23102441	MAGNET, CONVERGENCE, MAG1094
L473	23102441	MAGNET, CONVERGENCE, MAG1094
L474	23102441	MAGNET, CONVERGENCE, MAG1094
L501	23289470	COIL, PEAKING, TRF4470AF
L503	23289844	COIL, PEAKING, TRF4470AT
L504	23238714	COIL, PEAKING, TRF4100AJ
L505	23289840	COIL, PEAKING, TRF4100AT
L700	23103880	COIL, CHOKE, TEM2011Y
L701	23103866	FILTER, CHIP-FERRITE-CHOKE-70, TEM2105T
L702	23103866	FILTER, CHIP-FERRITE-CHOKE-70, TEM2105T
L707	23238562	COIL, PEAKING, TRF4109AJ
L708	23238562	COIL, PEAKING, TRF4109AJ
L709	23238562	COIL, PEAKING, TRF4109AJ
L710	23238562	COIL, PEAKING, TRF4109AJ
L711	23238562	COIL, PEAKING, TRF4109AJ
L712	23238562	COIL, PEAKING, TRF4109AJ
L713	23238562	COIL, PEAKING, TRF4109AJ
L714	23238562	COIL, PEAKING, TRF4109AJ
L720	23289102	COIL. PEAKING, TRF4102AF
L721	23237805	COIL, PEAKING, COLTRF4222AC
L722	23289102	COIL. PEAKING, TRF4102AF
L723	23237805	COIL, PEAKING, COLTRF4222AC
L724	23289102	COIL. PEAKING, TRF4102AF
L725	23237805	COIL, PEAKING, COLTRF4222AC
L726	23289102	COIL. PEAKING, TRF4102AF
L727	23237805	COIL, PEAKING, COLTRF4222AC
L728	23289102	COIL. PEAKING, TRF4102AF
L729	23237805	COIL, PEAKING, COLTRF4222AC
L730	23289102	COIL. PEAKING, TRF4102AF
L731	23237805	COIL, PEAKING, COLTRF4222AC
L737	23289560	COIL, PEAKING, TRF4560AF
L738	23289560	COIL, PEAKING, TRF4560AF
L739	23289560	COIL, PEAKING, TRF4560AF
L740	23289560	COIL, PEAKING, TRF4560AF
L753	23103866	FILTER, CHIP-FERRITE-CHOKE-70, TEM2105T
L754	23103866	FILTER, CHIP-FERRITE-CHOKE-70, TEM2105T
L803	23103880	COIL, CHOKE, TEM2011Y
L804	23103940	COIL, CHOKE, TEM2001
L823	23248073	COIL, CHOKE, TLN3299D
L824	23248073	COIL, CHOKE, TLN3299D
L839	23289842	COIL, PEAKING, TRF4220AT
L853	23248073	COIL, CHOKE, TLN3299D
L853	23248195	COIL, CHOKE, TLN3441AT
L854	23248195	COIL, CHOKE, TLN3441AT
L856	23103880	COIL, CHOKE, TEM2011Y
L857	23103880	COIL, CHOKE, TEM2011Y
L858	23103880	COIL, CHOKE, TEM2011Y
L859	23103880	COIL, CHOKE, TEM2011Y
L860	23280018	COIL, PEAKING, TRF4220AZ
L861	23103880	COIL, CHOKE, TEM2011Y
L862	23248073	COIL, CHOKE, TLN3299D
L863	23103880	COIL, CHOKE, TEM2011Y
L864	23103880	COIL, CHOKE, TEM2011Y
L865	23103880	COIL, CHOKE, TEM2011Y
L866	23248073	COIL, CHOKE, TLN3299D
L867	23248073	COIL, CHOKE, TLN3299D
L868	23103880	COIL, CHOKE, TEM2011Y
L869	23103880	COIL, CHOKE, TEM2011Y
L871	23248073	COIL, CHOKE, TLN3299D
L911	23237987	COIL, PEAKING, TRF4100AC
L961	23289100	COIL, PEAKING, TRF4100AF
L962	23237991	COIL, PEAKING, TRF4479AC
L963	23237975	COIL, PEAKING, TRF4101AC
L4471	23289840	COIL, PEAKING, TRF4100AT
L7701	23103880	COIL, CHOKE, TEM2011Y

Location No.	Parts No.	Description
L7702	23103880	COIL, CHOKE, TEM2011Y
L7703	23103880	COIL, CHOKE, TEM2011Y
L7704	23103880	COIL, CHOKE, TEM2011Y
L7705	23103880	COIL, CHOKE, TEM2011Y
L7706	23103880	COIL, CHOKE, TEM2011Y
LA01	23289840	COIL, PEAKING, TRF4100AT
LC01	23103828	INDUCTOR, BEAD, TEM2121M
LC02	23103828	INDUCTOR, BEAD, TEM2121M
LC03	23103828	INDUCTOR, BEAD, TEM2121M
LC04	23103828	INDUCTOR, BEAD, TEM2121M
LC05	23103828	INDUCTOR, BEAD, TEM2121M
LC06	23103828	INDUCTOR, BEAD, TEM2121M
LC07	23238562	COIL, PEAKING, TRF4109AJ
LC08	23238562	COIL, PEAKING, TRF4109AJ
LC09	23103828	INDUCTOR, BEAD, TEM2121M
LC10	23103828	INDUCTOR, BEAD, TEM2121M
LC11	23103828	INDUCTOR, BEAD, TEM2121M
LC12	23238562	COIL, PEAKING, TRF4109AJ
LC12	24000445	CHIP JUMPER, 1608TYPE
LC14	23248150	COIL, CHOKE, TLN3427
LC15	23248150	COIL, CHOKE, TLN3427
LC43	23103828	INDUCTOR, BEAD, TEM2121M
LC45	23238562	COIL, PEAKING, TRF4109AJ
LG102	23103828	INDUCTOR, BEAD, TEM2121M
LR01	23289109	COIL, PEAKING, TRF41R0AF
LR02	23289109	COIL, PEAKING, TRF41R0AF
LR22	23103845	COIL, COMMONMODE, TEM2030AY
LR23	23103845	COIL, COMMONMODE, TEM2030AY
LT01	23103828	INDUCTOR, BEAD, TEM2121M
LT02	23103828	INDUCTOR, BEAD, TEM2121M
LT03	23103828	INDUCTOR, BEAD, TEM2121M
LT04	23103828	INDUCTOR, BEAD, TEM2121M
LT05	23103828	INDUCTOR, BEAD, TEM2121M
LT07	23103828	INDUCTOR, BEAD, TEM2121M
LT08	23103828	INDUCTOR, BEAD, TEM2121M
LT09	23103828	INDUCTOR, BEAD, TEM2121M
LT11	23103828	INDUCTOR, BEAD, TEM2121M
LT12	23103828	INDUCTOR, BEAD, TEM2121M
LV09	23289840	COIL, PEAKING, TRF4100AT
LV42	23289840	COIL, PEAKING, TRF4100AT
LV43	23289840	COIL, PEAKING, TRF4100AT
LW02	23261974	COIL, FERRITE BEAD, HC5-035
LW04	23103859	COIL, CHOKE, TEM2011
LW05	23103859	COIL, CHOKE, TEM2011
LZ01	23238714	COIL, PEAKING, TRF4100AJ
LZ02	23238710	COIL, PEAKING, TRF4220AJ
LZ03	23238714	COIL, PEAKING, TRF4100AJ
LZ04	23238714	COIL, PEAKING, TRF4100AJ
LZ05	23238714	COIL, PEAKING, TRF4100AJ
LZ06	23221099	FILTER, TEM2027AD
LZ07	23103827	INDUCTOR, BEAD, TEM2120M
LZ09	23103827	INDUCTOR, BEAD, TEM2120M
LZ10	23103827	INDUCTOR, BEAD, TEM2120M
T400	23224364	TRANSFORMER, FOCUS, TLN2168AH
T401	23224367	TRANSFORMER, HORIZ DRIVER, TLN1098AH
⚠ T461	23236688	TRANSFORMER, FLYBACK, TFB3091AD
T461A	23192961	ANODE CAP ASSY, TCC5605AU
T801	23211731	COIL, LINE FILTER, TRF3164AC
T802	23217479	TRANSFORMER, CHOKE, TPW2029AZ
T803	23217432	TRANSFORMER, POWER TPW1562AZ
⚠ T862	23217463	TRANSFORMER, CONVERTER TPW3447AS
SEMICONDUCTORS		
Q201	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q202	23114425	TRANSISTOR, 2SA1015-Y(TE
Q203	23114425	TRANSISTOR, 2SA1015-Y(TE
Q204	23114425	TRANSISTOR, 2SA1015-Y(TE
Q209	23205112	TRANSISTOR, 2SA1980UF-Y(
Q241	23114755	TRANSISTOR, 2SC2482FA-1
Q274	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q301	23319787	IC, LA7833S
Q301B	70391355	SCREW, 3X8MM
Q302	B0384625	IC, TA8859CP
Q304	B0351501	IC, TA75902P(J)
Q305	23205112	TRANSISTOR, 2SA1980UF-Y(
Q306	B0351501	IC, TA75902P(J)
Q307	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q370	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q371	23205112	TRANSISTOR, 2SA1980UF-Y(
Q372	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q400	23205079	TRANSISTOR, 2SC4686A
Q402	23114755	TRANSISTOR, 2SC2482FA-1
Q404	23314955	TRANSISTOR, 2SD2553(FA)
Q404D	72471082	SCREW, 3X10MM
Q405	23114437	TRANSISTOR, 2SC752GTM-Y
Q406	23114437	TRANSISTOR, 2SC752GTM-Y
Q407	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q408	23205112	TRANSISTOR, 2SA1980UF-Y(
Q409	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q420	23114756	TRANSISTOR, 2SC2482
Q425	23205031	TRANSISTOR, FET, 2SK2920
Q426	B0347500	IC, TA75358P
Q427	70128158	IC, BA10393
Q482	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q492	A6547305	TRANSISTOR, 2SA1321(FA,C)
Q501	B01A2334	IC, TB1274F(J)
Q504	23205112	TRANSISTOR, 2SA1980UF-Y(
Q505	23205112	TRANSISTOR, 2SA1980UF-Y(
Q506	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q520	23205014	TRANSISTOR, 2SC4667-O
Q521	23114501	TRANSISTOR, RN1402
Q522	23205112	TRANSISTOR, 2SA1980UF-Y(
Q523	23314994	TRANSISTOR, 2SA1576A106
Q524	23205014	TRANSISTOR, 2SC4667-O
Q610	B0376885	IC, TA8216H
Q610B	70391355	SCREW, 3X8MM
Q611	A6359871	TRANSISTOR, 2SC3326B
Q612	A6359871	TRANSISTOR, 2SC3326B
Q614	23114499	TRANSISTOR, RN1404(TE85L
Q615	23205112	TRANSISTOR, 2SA1980UF-Y(
Q616	23205112	TRANSISTOR, 2SA1980UF-Y(
Q617	B0350000	IC, TA5458P
Q618	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q619	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q620	A6014041	TRANSISTOR, RN2404
Q621	A6359871	TRANSISTOR, 2SC3326B
Q624	A6359871	TRANSISTOR, 2SC3326B
Q625	A6014041	TRANSISTOR, RN2404
Q626	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q701	B01B4088	IC, TC190C06A301
Q703	23905014	IC, LC78816M
Q704	23905014	IC, LC78816M
Q705	23905014	IC, LC78816M
Q707	23905013	IC, TLC2932IPW
Q709	23906908	IC, MC33078D
Q711	23906924	IC, CAT24WC16P
Q712	23906924	IC, CAT24WC16P
Q715	23906908	IC, MC33078D
Q717	23906908	IC, MC33078D
Q719	23906908	IC, MC33078D

Location No.	Parts No.	Description
Q750	23000928	IC, SLA4501M
Q750B	23035310	SCREW, BTB3X10SZN
Q751	23000928	IC, SLA4501M
Q751B	23035310	SCREW, BTB3X10SZN
Q753	23000928	IC, SLA4501M
Q753B	23035310	SCREW, BTB3X10SZN
Q754	23904521	IC, AN7805
Q755	23904525	IC, AN7809
Q756	23318841	IC, AN79M09F
Q756B	23035310	SCREW, BTB3X10SZN
Q761	B0349260	IC, TA75393P
Q762	B0470188	IC, TC4066BP(N)
Q764	B0485895	IC, TC74HC14AP
Q767	B0470188	IC, TC4066BP(N)
Q798	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q801	23906540	IC, HYBRID VDS=400V STR-Z4267
Q810	23904268	IC, PQ05RR1
Q810B	70391355	SCREW, 3X8MM
Q819	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q830	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q830	23905977	IC, PQ09RD11
Q830B	70391355	SCREW, 3X8MM
Q832	23905976	IC, PQ05RD11
Q832B	70391355	SCREW, 3X8MM
Q843	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
⚠ Q862	23904427	IC, PHOTO COUPLER, TLP621(GR-LF2
Q863	23319305	IC, SE140N
Q902	23114433	TRANSISTOR, 2SC1815-Y
Q913	23114433	TRANSISTOR, 2SC1815-Y
Q914	23114429	TRANSISTOR, 2SC2120-Y(TE
Q922	23114433	TRANSISTOR, 2SC1815-Y
Q961	23114433	TRANSISTOR, 2SC1815-Y
Q962	23114422	TRANSISTOR, 2SA562TM-Y(T
Q963	23114433	TRANSISTOR, 2SC1815-Y
Q964	23114425	TRANSISTOR, 2SA1015-Y(TE
Q965	23114433	TRANSISTOR, 2SC1815-Y
Q966	23114425	TRANSISTOR, 2SA1015-Y(TE
Q4451	23205116	TRANSISTOR, 2SC5343UF-Y(B
Q4452	A6004061	TRANSISTOR, RN1406
Q4453	A6004061	TRANSISTOR, RN1406
Q4454	A6004061	TRANSISTOR, RN1406
Q4471	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
Q9601	23114425	TRANSISTOR, 2SA1015-Y(TE
Q9602	23114425	TRANSISTOR, 2SA1015-Y(TE
Q9605	23114433	TRANSISTOR, 2SC1815-Y
Q9606	23114425	TRANSISTOR, 2SA1015-Y(TE
QA02	23906642	IC, AT24C64-10PC
QA05	23205014	TRANSISTOR, 2SC4667-O
QA60	23205116	TRANSISTOR, 2SC5343UF-Y(B
QA61	23000864	IC, 256K BIT CMOS EEPROM AT24C256-10PC
QB01	23114425	TRANSISTOR, 2SA1015-Y(TE
QB04	23205112	TRANSISTOR, 2SA1980UF-Y(
QB06	23205112	TRANSISTOR, 2SA1980UF-Y(
QB81	A6359871	TRANSISTOR, 2SC3326B
QB82	A6359871	TRANSISTOR, 2SC3326B
QB83	23205112	TRANSISTOR, 2SA1980UF-Y(
QB92	23205116	TRANSISTOR, 2SC5343UF-Y(B
QB93	23205112	TRANSISTOR, 2SA1980UF-Y(
QB94	23205112	TRANSISTOR, 2SA1980UF-Y(
QB95	23205112	TRANSISTOR, 2SA1980UF-Y(
QB96	23205112	TRANSISTOR, 2SA1980UF-Y(
QR01	23009037	IC, OSD 28SDIP 512CHR MB90096P-G-23
QR03	23205112	TRANSISTOR, 2SA1980UF-Y(
QR35	23205116	TRANSISTOR, 2SC5343UF-Y(B

Location No.	Parts No.	Description
QR36	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR38	23205116	TRANSISTOR, 2SC5343UF-Y(B
QR40	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS01	A6359871	TRANSISTOR, 2SC3326B
QS02	A6359871	TRANSISTOR, 2SC3326B
QS03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QS05	A6359871	TRANSISTOR, 2SC3326B
QS06	A6359871	TRANSISTOR, 2SC3326B
QS07	A6359871	TRANSISTOR, 2SC3326B
QS08	A6359871	TRANSISTOR, 2SC3326B
QS09	A6014041	TRANSISTOR, RN2404
QT01	23000724	IC, TELETEXT DECODER SAA5667HL-EUR
QT02	23314993	TRANSISTOR, 2SC4081 Q
QT05	23314993	TRANSISTOR, 2SC4081 Q
QT06	23000283	IC, 23000283L NI TOUITSU R1121N
QT08	23314993	TRANSISTOR, 2SC4081 Q
QT09	23000727	IC, SRAM 1M M5M51008BVP12
QT10	23314993	TRANSISTOR, 2SC4081 Q
QT11	23906367	IC, PST9146NL
QT12	23314994	TRANSISTOR, 2SA1576A106
QT13	23314994	TRANSISTOR, 2SA1576A106
QT14	23314994	TRANSISTOR, 2SA1576A106
QT15	23314994	TRANSISTOR, 2SA1576A106
QV01	23000368	IC, A/V SW SOP-44 MM1495XF
QV02	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV03	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV04	23205116	TRANSISTOR, 2SC5343UF-Y(B
QV05	23205112	TRANSISTOR, 2SA1980UF-Y(
QV09	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QV12	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QV14	23314794	TRANSISTOR, VCEO=50V TO-92 2PC1815Y
QW06	23114433	TRANSISTOR, 2SC1815-Y
QW07	23114437	TRANSISTOR, 2SC752GTM-Y
QW09	23114433	TRANSISTOR, 2SC1815-Y
QW10	23114425	TRANSISTOR, 2SA1015-Y(TE
QW19	23114433	TRANSISTOR, 2SC1815-Y
QW20	23114433	TRANSISTOR, 2SC1815-Y
QW51	23314909	TRANSISTOR, 2SA1837
QW52	A6369650	TRANSISTOR, 2SC4793
QZ01	23000796	IC, CMOS MULTI COMB SOP28 TC90A69F(ELP)
QZ02	23205116	TRANSISTOR, 2SC5343UF-Y(B
QZ04	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ05	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ07	23205112	TRANSISTOR, 2SA1980UF-Y(
QZ08	23205116	TRANSISTOR, 2SC5343UF-Y(B
D101	23316755	DIODE, ZENER, MTZJ33C
D201	23118041	DIODE, MA111
D301	23357169	DIODE, ZENER, UDZS6.8B
D302	23118094	DIODE, EU2A
D304	23316794	DIODE, SC570A
D305	23118822	DIODE, ERB12-02
D306	23118822	DIODE, ERB12-02
D308	23316583	DIODE, ZENER, MA8039-H
D310	23118041	DIODE, MA111
D370	23118041	DIODE, MA111
D401	23118094	DIODE, EU2A
D402	23118094	DIODE, EU2A
D403	23316254	DIODE, ERC06-15
D405	23316254	DIODE, ERC06-15
D406	A7978850	DIODE, S5295G
D412	23118707	DIODE, RP-1H
D413	23118707	DIODE, RP-1H
D420	23115599	DIODE, 1N4148

Location No.	Parts No.	Description
D421	23118094	DIODE, EU2A
D425	23118094	DIODE, EU2A
D426	23118275	DIODE, ZENER, RD18MB2
D461	23316969	DIODE, ERD29-06
D490	23115599	DIODE, 1N4148
D490	23115774	DIODE, ZENER, RD6.2E(FA-1)
D491	23118041	DIODE, MA111
D491	23316758	DIODE, ZENER, MTZJ36B
D492	23118621	DIODE, ZENER, RD10ESA B3
D504	23118041	DIODE, MA111
D505	23115599	DIODE, 1N4148
D506	23316673	DIODE, ZENER, MTZJ5.6C
D511	23357037	DIODE, ZENER, UDZS5.6B
D514	23357037	DIODE, ZENER, UDZS5.6B
D515	23357037	DIODE, ZENER, UDZS5.6B
D601	23118041	DIODE, MA111
D602	23118041	DIODE, MA111
D603	23118041	DIODE, MA111
D604	23118041	DIODE, MA111
D605	23118041	DIODE, MA111
D606	23118041	DIODE, MA111
D607	23118041	DIODE, MA111
D608	23118041	DIODE, MA111
D609	23118041	DIODE, MA111
D610	23118041	DIODE, MA111
D611	23118041	DIODE, MA111
D628	23118269	DIODE, ZENER, RD22MB2
D701	23115599	DIODE, 1N4148
D702	23115599	DIODE, 1N4148
D703	23115599	DIODE, 1N4148
D704	23115599	DIODE, 1N4148
D705	23316675	DIODE, ZENER, MTZJ6.2B
D706	23316675	DIODE, ZENER, MTZJ6.2B
D707	23316675	DIODE, ZENER, MTZJ6.2B
D801	23316962	DIODE, S1WBA20
D802	23357041	DIODE, LN6SB60-F05
D816	24000656	VARISTOR, TNR15G471K
D817	23115599	DIODE, 1N4148
D818	23316672	DIODE, ZENER, MTZJ5.6B
D820	23316757	DIODE, ZENER, MTZJ36A
D821	23115599	DIODE, 1N4148
D830	23115532	DIODE, ERB12-01
D830	23115599	DIODE, 1N4148
D832	23115532	DIODE, ERB12-01
D845	23357215	DIODE, D4SBS6
D845B	70391355	SCREW, 3X8MM
D846	23118060	DIODE, AL01Z
D854	23357214	DIODE, D4SBS4
D856	23357216	DIODE, D4SBL20U
D858	23115599	DIODE, 1N4148
D859	23357042	DIODE, FMX-12S(023-108)
D859B	70391355	SCREW, 3X8MM
D860	23357217	DIODE, D4SBL40
D862	23118057	DIODE, AG01A
D863	23316689	DIODE, ZENER, MTZJ10A
D864	23118060	DIODE, AL01Z
D873	23316747	DIODE, ZENER, MTZJ27C
D875	23316688	DIODE, ZENER, MTZJ9.1C
D876	23316753	DIODE, ZENER, MTZJ33A
D877	23316747	DIODE, ZENER, MTZJ27C
D878	23316686	DIODE, ZENER, MTZJ9.1A
D893	23316669	DIODE, ZENER, MTZJ5.1B
D894	23316745	DIODE, ZENER, MTZJ27A
D901	23115599	DIODE, 1N4148
D902	23115599	DIODE, 1N4148

Location No.	Parts No.	Description
D903	23115599	DIODE, 1N4148
D911	23115599	DIODE, 1N4148
D912	23115599	DIODE, 1N4148
D913	23115599	DIODE, 1N4148
D914	23115599	DIODE, 1N4148
D915	23115599	DIODE, 1N4148
D921	23115599	DIODE, 1N4148
D922	23115599	DIODE, 1N4148
D924	23115599	DIODE, 1N4148
D925	23115599	DIODE, 1N4148
D926	23115599	DIODE, 1N4148
D965	23115599	DIODE, 1N4148
D966	23115599	DIODE, 1N4148
D4401	23118041	DIODE, MA111
D4402	23118041	DIODE, MA111
D4451	23115532	DIODE, ERB12-01
D4452	23357170	DIODE, ZENER, UDZS8.2B
D4453	23118041	DIODE, MA111
D4471	23357172	DIODE, ZENER, UDZS10B
D4472	23118041	DIODE, MA111
D7703	23118538	DIODE, ZENER, RD6.2ES
D7705	23118041	DIODE, MA111
D7706	23118041	DIODE, MA111
D7707	23118041	DIODE, MA111
D7708	23118041	DIODE, MA111
D7710	23316716	DIODE, ZENER, MTZJ11B
D7711	23316716	DIODE, ZENER, MTZJ11B
D7713	23118041	DIODE, MA111
D7736	23118041	DIODE, MA111
D7743	23115532	DIODE, ERB12-01
D7744	23115532	DIODE, ERB12-01
DA42	23316673	DIODE, ZENER, MTZJ5.6C
DB01	23358564	LED, LAMP RED SLR-56VC3FPQ
DB02	23358563	LED, LAMP GREEN SLR-56MC3FPQR
DR01	23118041	DIODE, MA111
DR02	23118041	DIODE, MA111
DR03	23118041	DIODE, MA111
DR61	23118041	DIODE, MA111
DR62	23118041	DIODE, MA111
DR63	23118041	DIODE, MA111
DR70	23357037	DIODE, ZENER, UDZS5.6B
DV08	23118041	DIODE, MA111
DW04	23115599	DIODE, 1N4148
DW05	23115599	DIODE, 1N4148
DW21	23115599	DIODE, 1N4148
MISCELLANEOUS		
B224	23035412	SCREW, BTB4X12SZN
B230	23037312	SCREW, BTBW3X12SZN
B231	23845856	WIRE CLAMP (POF COAT) L=70MM, COMMON
B236	23037312	SCREW, BTBW3X12SZN
B237	23037312	SCREW, BTBW3X12SZN
B240	23035412	SCREW, BTB4X12SZN
B241	23035412	SCREW, BTB4X12SZN
BB20A	23902749	CONNECTOR, B-B, 6P
BB21A	23713013	BASE SOCKET 16P 1.5
BB21B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB23	23902749	CONNECTOR, B-B, 6P
BB23B	23368517	CONNECTOR, B-B, 6P
BB24A	23713013	BASE SOCKET 16P 1.5
BB24B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB701	23368517	CONNECTOR, B-B, 6P
BB80A	23713013	BASE SOCKET 16P 1.5
BB80B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5

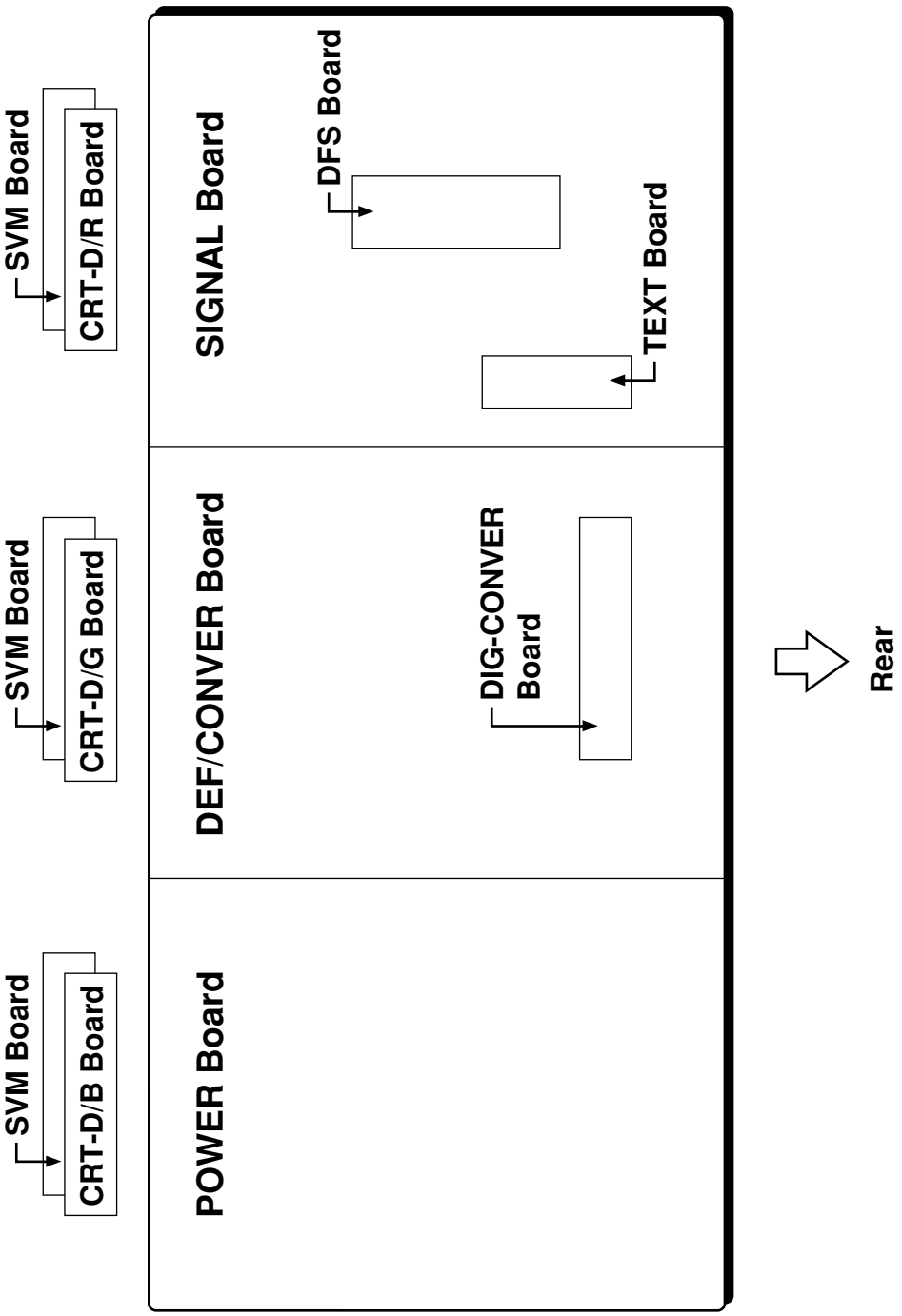
Location No.	Parts No.	Description
BB82A	23713013	BASE SOCKET 16P 1.5
BB82B	23713014	CONNECTOR, BRIDGE PLUG 16P 1.5
BB85A	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85B	23903022	CONNECTOR, BASE B-B 8P 2.5 JST
BB85C	23368627	CONNECTOR, BRIDGE B-B 8P 2.5JST 08TM-2.5FJ-E
E921	23964147	COOLANT, COOLANT
E951	23964147	COOLANT, COOLANT
E981	23964147	COOLANT, COOLANT
⚠ F801	23144507	FUSE, CARTRIDGE 5.2X20 250V 3.15A
F801A	23165433	FUSE HOLDER, 5.2 SOC
F801B	23165433	FUSE HOLDER, 5.2 SOC
G005	23115599	DIODE, 1N4148
G023	24327180	RESISTER, METAL FILM, 1/4W 180 OHM F
G103	23103828	INDUCTOR, BEAD, TEM2121M
G510	23289479	COIL, PEAKING, TRF44R7AF
G601	24000445	CHIP JUMPER, 1608TYPE
G602	24000445	CHIP JUMPER, 1608TYPE
G603	24000445	CHIP JUMPER, 1608TYPE
G604	24000445	CHIP JUMPER, 1608TYPE
GA37	23103828	INDUCTOR, BEAD, TEM2121M
GA38	23103828	INDUCTOR, BEAD, TEM2121M
GC01	24000445	CHIP JUMPER, 1608TYPE
GC02	23103828	INDUCTOR, BEAD, TEM2121M
GC03	24000445	CHIP JUMPER, 1608TYPE
GC04	23103828	INDUCTOR, BEAD, TEM2121M
GC15	24000445	CHIP JUMPER, 1608TYPE
GC16	24000445	CHIP JUMPER, 1608TYPE
GC17	23103828	INDUCTOR, BEAD, TEM2121M
GJ03	24000445	CHIP JUMPER, 1608TYPE
GJ04	24000445	CHIP JUMPER, 1608TYPE
GJ05	24000445	CHIP JUMPER, 1608TYPE
GJ08	24000445	CHIP JUMPER, 1608TYPE
GJ11	24000445	CHIP JUMPER, 1608TYPE
GJ13	24000445	CHIP JUMPER, 1608TYPE
GJ16	24000445	CHIP JUMPER, 1608TYPE
GJ17	24000445	CHIP JUMPER, 1608TYPE
GJ18	24000445	CHIP JUMPER, 1608TYPE
GJ21	24000445	CHIP JUMPER, 1608TYPE
GJ22	24000445	CHIP JUMPER, 1608TYPE
GJ23	24000445	CHIP JUMPER, 1608TYPE
GJ24	24000445	CHIP JUMPER, 1608TYPE
GJ25	24000445	CHIP JUMPER, 1608TYPE
GJ26	24000445	CHIP JUMPER, 1608TYPE
GJ30	24000445	CHIP JUMPER, 1608TYPE
GJ47	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000445	CHIP JUMPER, 1608TYPE
GJ48	24000824	JUMPER CHIP, 2125TYPE
GJ49	24000445	CHIP JUMPER, 1608TYPE
GJ51	24000445	CHIP JUMPER, 1608TYPE
GJ62	24000445	CHIP JUMPER, 1608TYPE
GJ63	24000445	CHIP JUMPER, 1608TYPE
GJ68	24000445	CHIP JUMPER, 1608TYPE
GJ71	24000445	CHIP JUMPER, 1608TYPE
GJ72	24000445	CHIP JUMPER, 1608TYPE
GJ73	24000445	CHIP JUMPER, 1608TYPE
GJ73	24000445	CHIP JUMPER, 1608TYPE
GJ74	24000445	CHIP JUMPER, 1608TYPE
GJ74	24000445	CHIP JUMPER, 1608TYPE
GJ75	24000445	CHIP JUMPER, 1608TYPE
GJ75	24000445	CHIP JUMPER, 1608TYPE
GJ76	24000445	CHIP JUMPER, 1608TYPE
GJ701	24000824	JUMPER CHIP, 2125TYPE
GJ702	24000824	JUMPER CHIP, 2125TYPE
GJ705	24000824	JUMPER CHIP, 2125TYPE

Location No.	Parts No.	Description
GJ707	24000824	JUMPER CHIP, 2125TYPE
GJ708	24000824	JUMPER CHIP, 2125TYPE
GJ711	24000824	JUMPER CHIP, 2125TYPE
GJ712	24000824	JUMPER CHIP, 2125TYPE
GJ713	24000824	JUMPER CHIP, 2125TYPE
GJ714	24000824	JUMPER CHIP, 2125TYPE
GJ718	24000824	JUMPER CHIP, 2125TYPE
GJ777	24000445	CHIP JUMPER, 1608TYPE
GT03	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT04	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT05	24011472	CHIP, METAL FILM, 1/20W 4.7K OHM J
GT07	24000445	CHIP JUMPER, 1608TYPE
GT09	24011103	CHIP, METAL FILM, 1/20W 10K OHM J
H002	23148745	MODULE, NICAM/IGR A-PRO MPSN11C
JR01	24000445	CHIP JUMPER, 1608TYPE
KB01	23000852	IC, REMOCON RECEIVER, PIC-37043TE2
P661	23365444	JACK, EARPHONE, D3.5 HOSIDEN
P701	23367724	CONNECTOR, B-B, 15P
P702	23367724	CONNECTOR, B-B, 15P
P708	23902655	CONNECTOR, 15P
P709	23902655	CONNECTOR, 15P
P713	23164787	CONNECTOR, PLUG, 7P
P714	23164787	CONNECTOR, PLUG, 7P
P715	23164787	CONNECTOR, PLUG, 7P
P800	23368013	CONNECTOR, PLUG, 2P 11.88MM W VT-JST
⚠ P801	23372012	POWER CORD, POWER CORD
⚠ P801	23372052	POWER CORD, 250V2.5A
PF01	23902655	CONNECTOR, 15P
PH02	23365598	21 PIN CONNECTOR 2100RFT 21 PIN C0NNECT0R
PT01	23367724	CONNECTOR, B-B, 15P
⚠ S801	23145434	SWITCH, 2C2P, POWER
SA01	23145226	SWITCH, 1C1P, PUSH
SA02	23145226	SWITCH, 1C1P, PUSH
SA03	23145226	SWITCH, 1C1P, PUSH
SA04	23145226	SWITCH, 1C1P, PUSH
SA06	23145226	SWITCH, 1C1P, PUSH
SA07	23145226	SWITCH, 1C1P, PUSH
⚠ SR81	23146574	RELAY, DLS5D1-O(M) 0.15W
⚠ V901A	23903148	SOCKET, ISH-44S-E ICE #5
⚠ V902A	23902019	SOCKET, CRT, 10P SMK
⚠ V903A	23902019	SOCKET, CRT, 10P SMK
W661	23351131	SPEAKER, SPK11390, 120X120, 8 OHM, 15W
W662	23351131	SPEAKER, SPK11390, 120X120, 8 OHM, 15W
X4402	23153721	CERAMIC RESONATOR, 503KHZ
X501	23153438	CRYSTAL, 16.200 25PPM 25OHM
XA01	23153497	CERAMIC RESONATER, TCR1080AM
XT01	23153930	CRYSTAL, 12.000 25PPM 40OHM 7PF
⚠ Z410	23110842	FOCUS PACK, TPA6031
Z410A	23505177	CABLE, FOCUS
⚠ Z450	24083013	COMPOSITE PARTS, CR-BLOCK, TPA5010AH
Z702	23103823	COIL, FILTER, TEM2027D
Z703	23103823	COIL, FILTER, TEM2027D
Z704	23103823	COIL, FILTER, TEM2027D
Z705	23103823	COIL, FILTER, TEM2027D
Z706	23103823	COIL, FILTER, TEM2027D
Z707	23103823	COIL, FILTER, TEM2027D
Z711	23103823	COIL, FILTER, TEM2027D
Z712	23103823	COIL, FILTER, TEM2027D
⚠ Z853	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA

Location No.	Parts No.	Description
⚠ Z854	23144608	PROTECTOR, PRT SERIES, DC60V/AC90V 4000MA
Z856	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
Z857	23144607	PROTECTOR, PRT SERIES, DC60V/AC90V 3150MA
Z858	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
Z859	23144609	PROTECTOR, PRT SERIES, DC60V/AC90V 5000MA
⚠ Z860	23144480	PROTECT0R, CURRENT, AC125V 3.15A
Z861	23144605	PROTECTOR, PRT SERIES, DC60V/AC90V 2000MA
PC BOARD ASSEMBLIES		
* U101	23786971	SIGNAL BOARD, PD0380A
* U102	23786972	DEF/CONV BOARD, PD0381A
* U103	23786973	D-CONVER BOARD, PD0382A
* U104	23787247	TEXT-P2 BOARD, PD0267A
* U901A	23786975	CRTD RED BOARD, PD0383A-1
* U901B	23786976	CRTD GREEN BOARD, PD0383A-2
* U901C	23786977	CRTD BLUE BOARD, PD0383A-3
* U901D	23786978	SVM BOARD, PD0383A-4
* U902	23786974	MAIN-POWER BOARD, PD0384A
* U903A	23787069	FRONT IN BOARD, PD0133C-1
* U903B	23787070	RMT IN BOARD, PD0133C-3
* U903C	23787071	KEY-IND BOARD, PD0133C-2
PICTURE TUBE		
⚠ V911R	23908037	SERVICE ONLY PARTS, PJTV CRT-R 43PH14P
⚠ V912B	23908038	SERVICE ONLY PARTS, PJTV CRT-B 43PH14P
⚠ V913G	23908039	SERVICE ONLY PARTS, PJTV CRT-G 43PH14P
TUNER		
H001	23321398	TUNER, EURO IF ALPS TADF4-003A
ACCESSORIES		
K902	23306435	REMOCON HAND UNIT IR, CTV, CT-90101
Y101A	23565406	OWNER'S MANUAL, ENGLISH, 43VJ13P
Y101B	23565407	OWNER'S MANUAL, FRENCH, 43VJ13P
Y101C	23565408	OWNER'S MANUAL, GER, 43VJ13P
Y101C	23565408	OWNER'S MANUAL, GER, 43VJ13P
Y101D	23565409	OWNER'S MANUAL, ITA, 43VJ13P
Y101E	23565410	OWNER'S MANUAL, SPA, 43VJ13P
Y101F	23565412	OWNER'S MANUAL, DEN, 43VJ13P
Y101G	23565413	OWNER'S MANUAL, SWE, 43VJ13P
Y101H	23565414	OWNER'S MANUAL, FIN, 43VJ13P
Y101I	23565415	OWNER'S MANUAL, NOR, 43VJ13P
Y101J	23565416	OWNER'S MANUAL, DUTCH, 43VJ13P
Y101K	23565411	OWNER'S MANUAL, PORT, 43VJ13P
Y101L	23565417	OWNER'S MANUAL, POL, 43VJ13P
Y101M	23565418	OWNER'S MANUAL, TRK, 43VJ13P
CABINET PARTS		
A004	23008107	OTHER BLOCK, MIRROR COVER 43PH14P
A125	23560038	LABEL, ATTENTION SERVICE 48PJ6DB
A201	23540615	COVER, BEZEL 43PH14P 43PH14P
A202	23540941	CONTROL PANEL 43VJ13P
A213	23428013	DOOR 43VJ13P
A214	70368125	PUSH CATCH
A216	23445513	KNOB, BUTTON CONTROL 43PH14P
A223	23445496	BUTTON, BUTTON POWER 43PH14P

Location No.	Parts No.	Description
A258	23527204	SPEAKER GRILL 43VJ13P
A420	23540149	BACK COVER PROPER, 43PJ93B
A421	23411197	CABINET, REAR PLATE 43PJ93B 43PJ93B;C995026EP1
⚠ A424	23411540	CABINET, BACK BOARD 43PH14P 43PH14P
A501	23035412	SCREW, BTB4X12SZN
A505	72471068	SCREW, 4X12
A508	23035412	SCREW, BTB4X12SZN
A529	23037312	SCREW, BTBW3X12SZN
A529	23037312	SCREW, BTBW3X12SZN
A543	72471068	SCREW, 4X12
A547	23035010	SCREW, PBI 4X16
A701	23064552	CARTON, CASE 43PH14P
A702	23935878	PACKING, BOTTOM PACKING 43PJ93B;A985384E
A703	23935880	PACKING, TOP PACKING 43PJ93B;A985385E
A726	23974753	POLYPROPYLENE BAND, 3327DB
A727	23974753	POLYPROPYLENE BAND, 3327DB
A731D	23560820	LABEL,IN HOUSE CARTON(57YEL), 28MW7DB
K101	23430690	LENS, SSM65AB43
K102	23430690	LENS, SSM65AB43
K103	23430690	LENS, SSM65AB43
K501	23430786	SCREEN, 43KK LENTICULAR SHEET SCREEN43KK-L
K502	23430902	SCREEN, 43KKK FRESNEL SHEET SCREEN43KKKF
K601	23430758	MIRROR, 43KE 860/580x600/75x2.3 MIRROR43KE

PC BOARDS LAYOUT TOP VIEW



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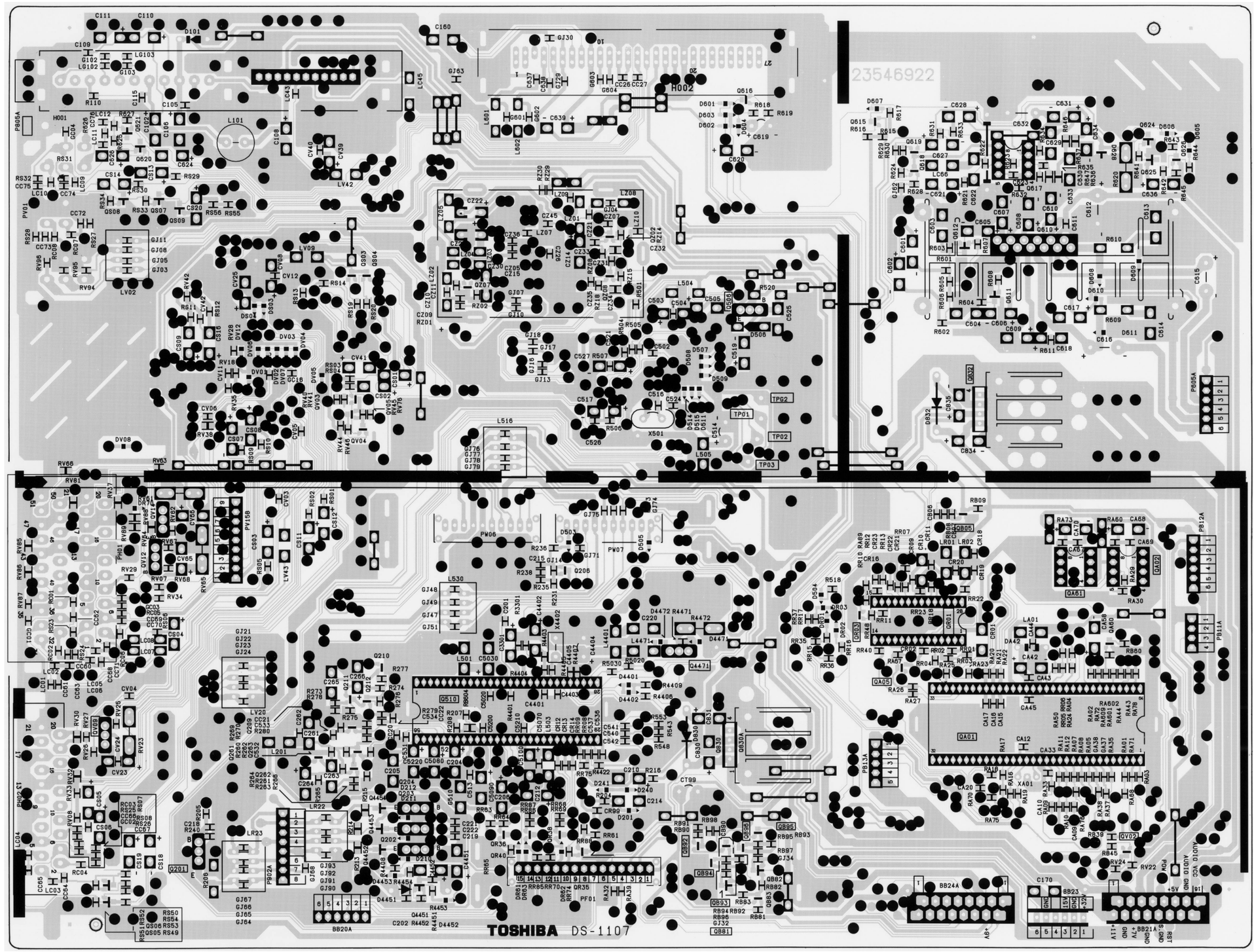
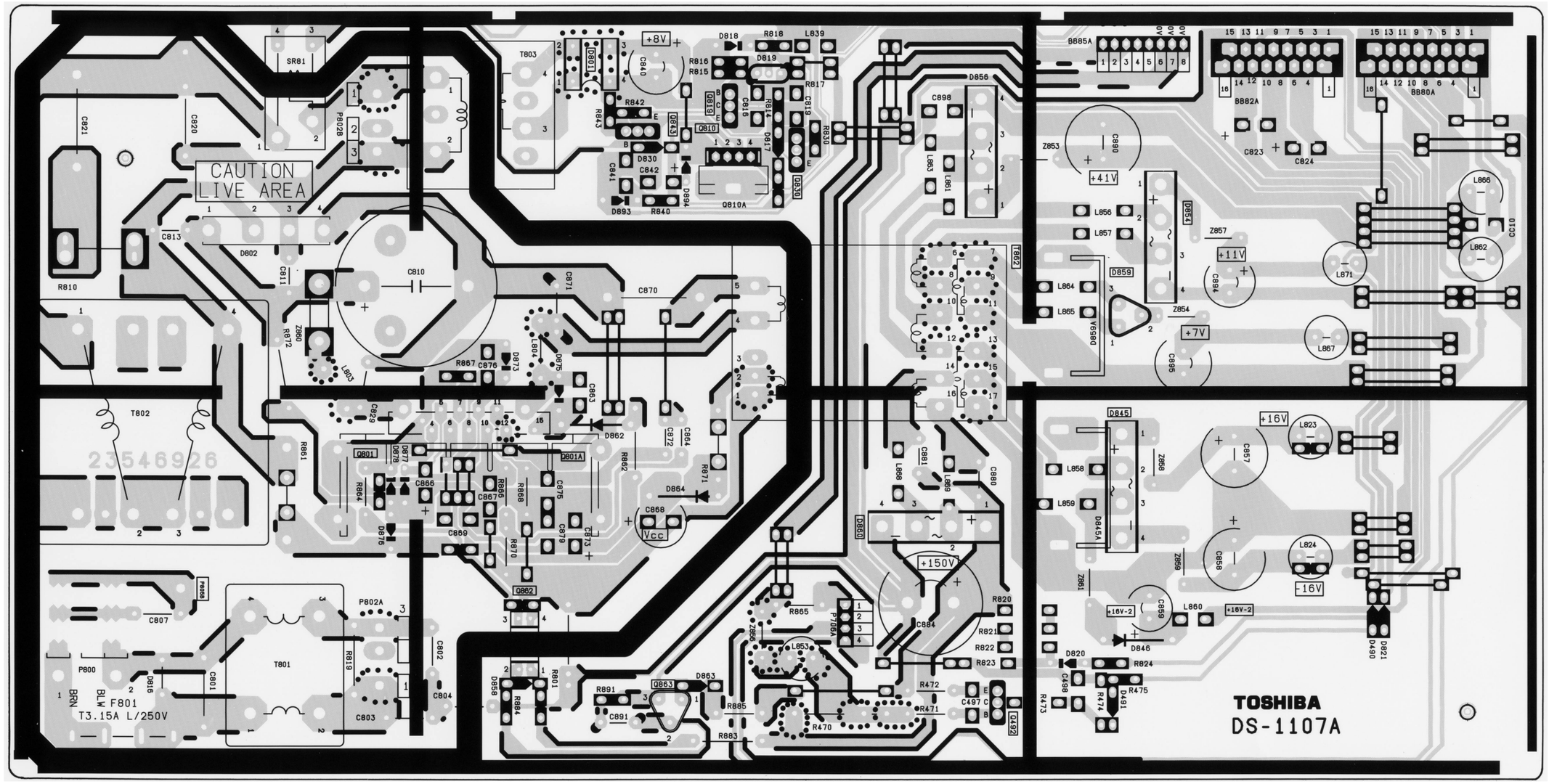
SIGNAL BOARD PD0380A

BOTTOM (FOIL) SIDE



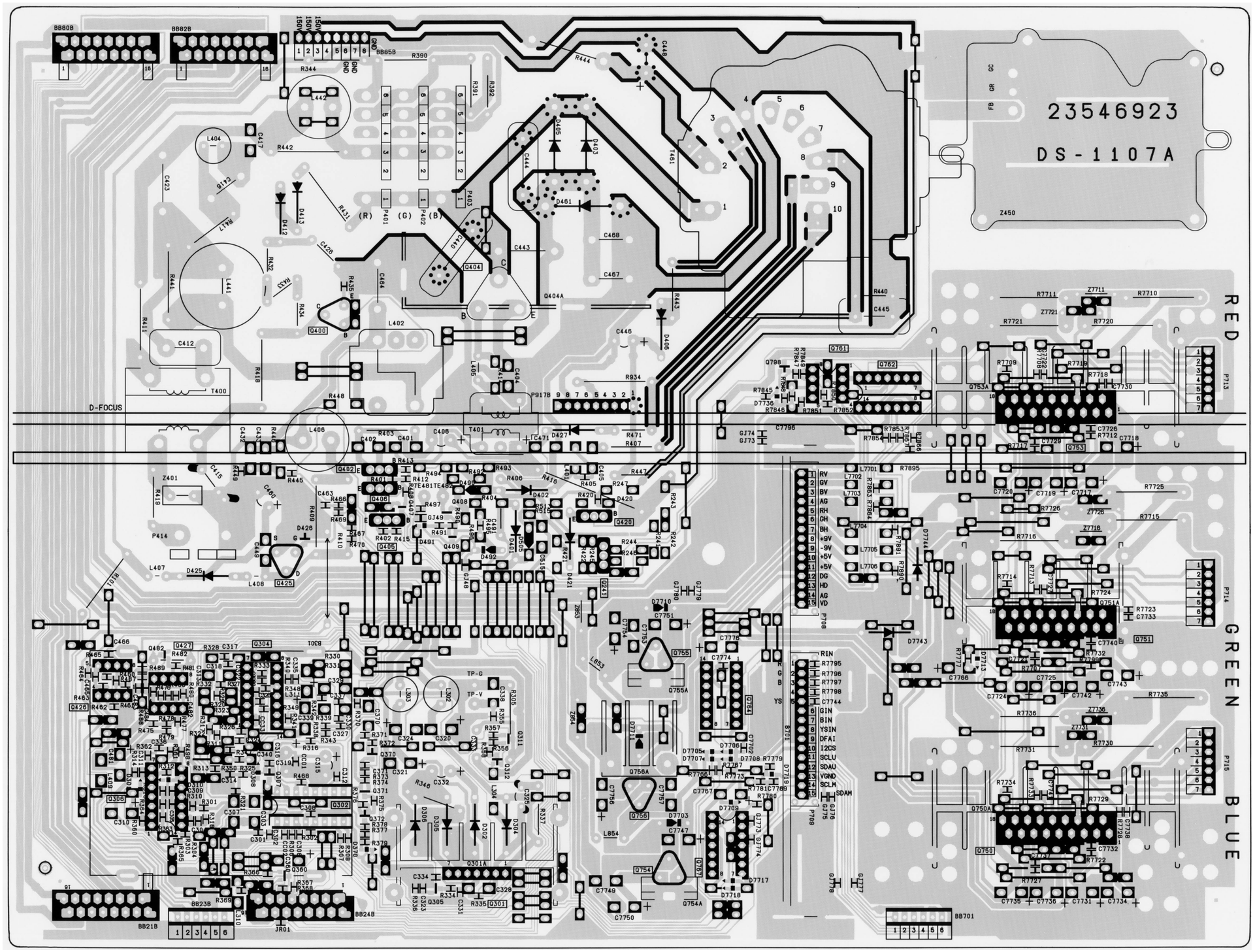
MAIN/POWER BOARD PD0384A

BOTTOM (FOIL) SIDE



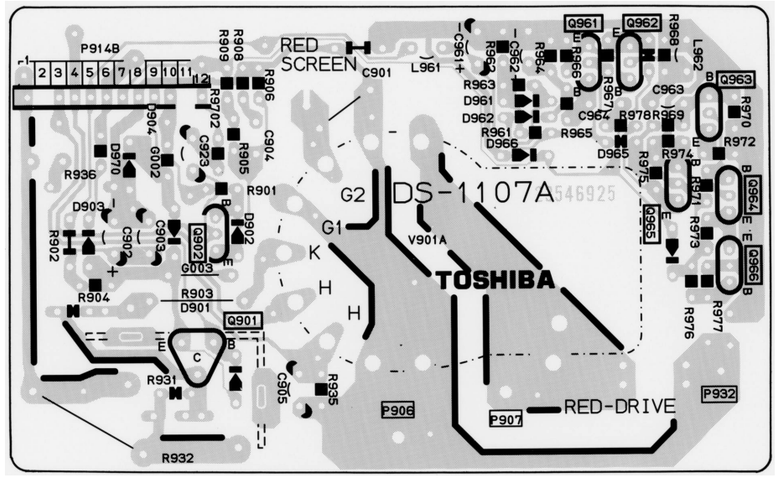
DEF/CONV BOARD PD0381A

BOTTOM (FOIL) SIDE



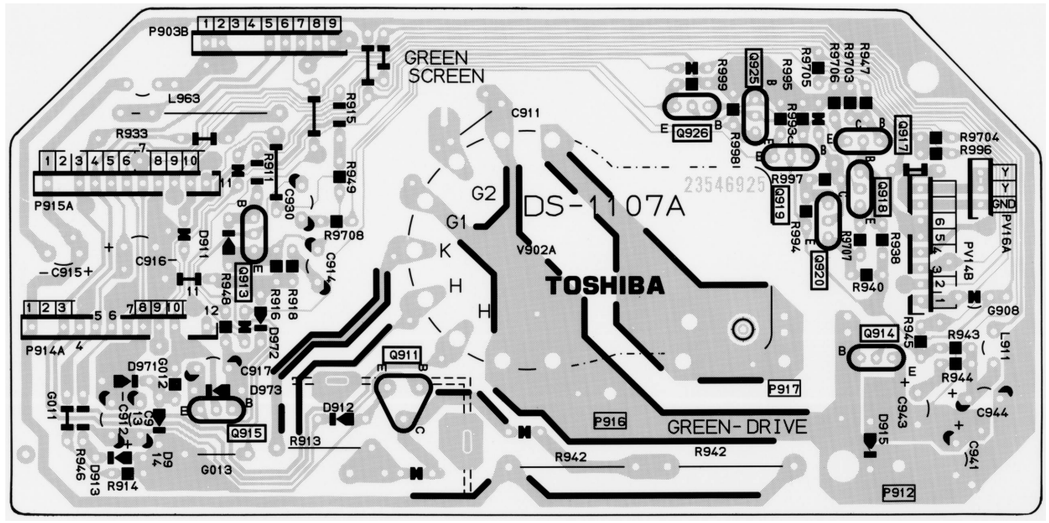
CRT-D RED BOARD PD0383A-1

BOTTOM (FOIL) SIDE



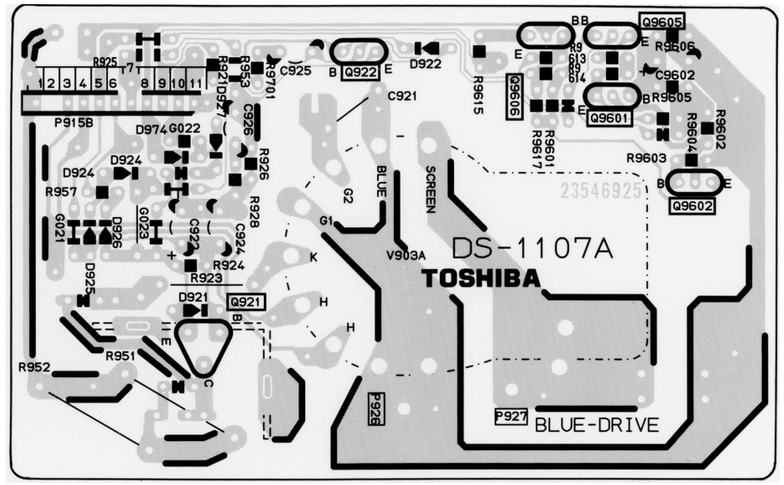
CRT-D GREEN BOARD PD0383A-2

BOTTOM (FOIL) SIDE



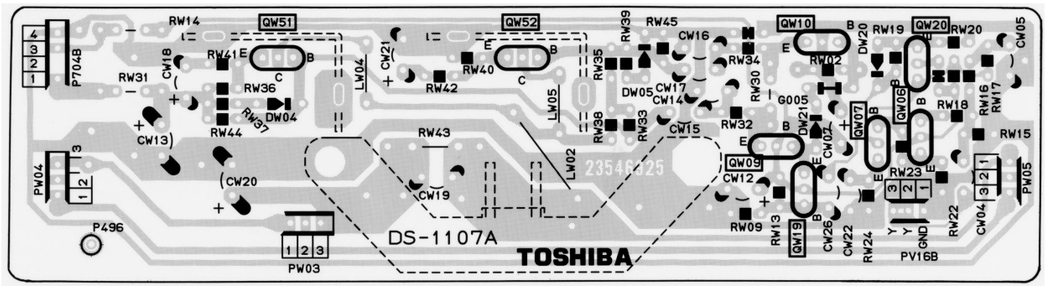
CRT-D BLUE BOARD PD0383A-3

BOTTOM (FOIL) SIDE



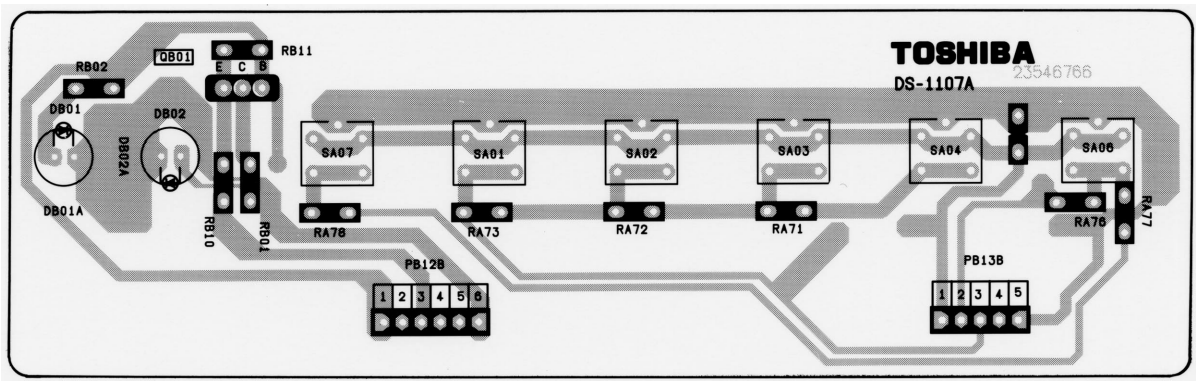
SVM BOARD PD0383A-4

BOTTOM (FOIL) SIDE



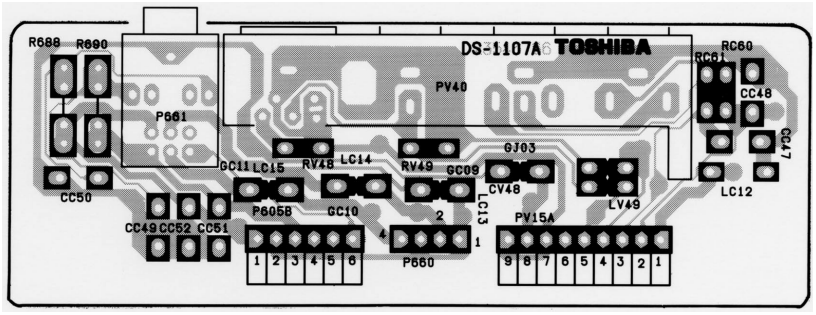
FRONT IN BOARD PD0133C-1

BOTTOM (FOIL) SIDE



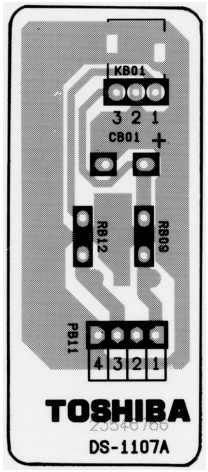
KEY-IND BOARD PD0133C-2

BOTTOM (FOIL) SIDE



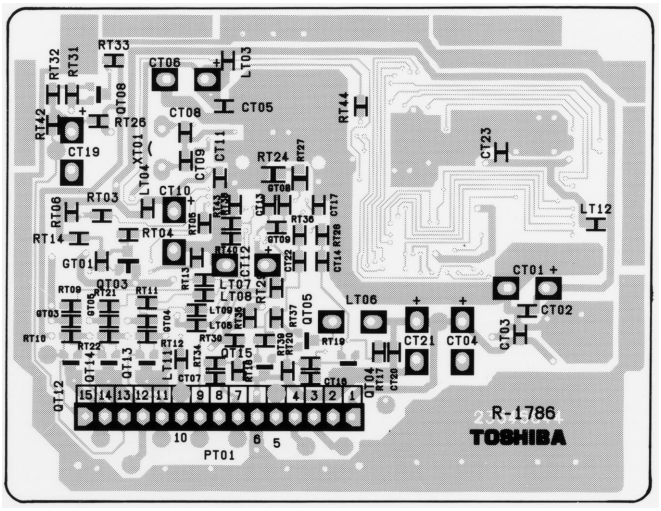
RMT IN BOARD PD0133C-3

BOTTOM (FOIL) SIDE



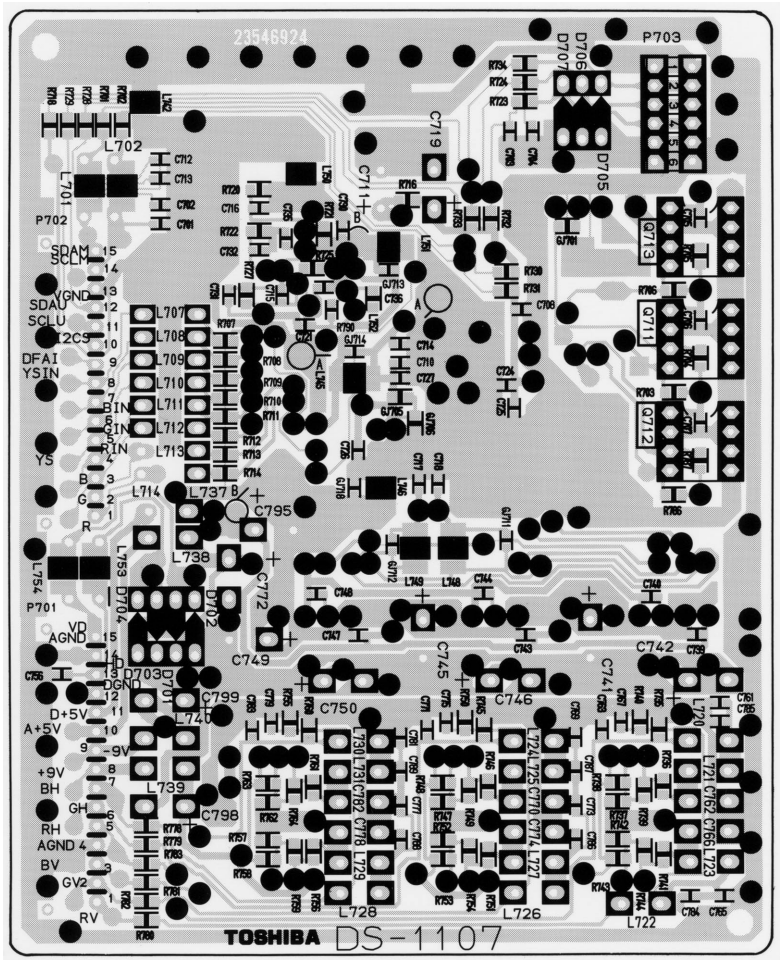
TEXT-P2 BOARD PD0267A

BOTTOM (FOIL) SIDE



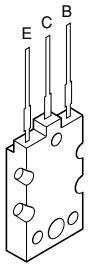
D-CONVER BOARD PD0382A

BOTTOM (FOIL) SIDE

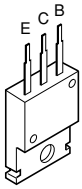


TERMINAL VIEW OF TRANSISTORS

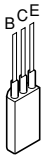
① 2SD2253
(old)
2SC5243



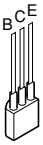
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



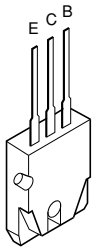
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



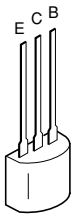
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



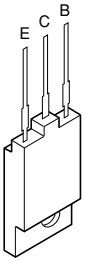
⑤ 2SA1788



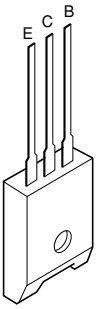
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



SCHEMATIC DIAGRAM

MODEL : 43VJ13P

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON THE MANUAL FOR THIS MODEL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on the MANUAL for this model. Do not degrade the safety of the receiver through improper servicing.

NOTE:

1. RESISTOR Resistance is shown in ohm [K = 1.000, M = 1.000.000]. All resistors are 1/6W and 5% tolerance carbon resistor, unless otherwise noted as the following marks.
   1/2R = Metal or Metal oxide of 1/2 watt 1/2S = Carbon compsistion of 1/2 watt
   1RF = Fuse resistor of 1 watt 10W = Cement of 10 watt
   K = ±10% G = ±2% F = ±1%
2. CAPACITOR Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in μF, and the values more than 1 in pF.
   All capacitors are ceramic 50V, unless otherwise noted as the following marks.
   Electolytic capacitor Mylar capacitor
3. The parts indicated with " ⚠ " have special characteristics, and should be replaced with identical parts only.
4. Voltages read with DIGITAL MULTI-METER from point indicated to chassing ground, using a color bar signal with all controls at normal, line voltage 220 volts.
5. Waveforms are taken receiving color bar signal with enough sensitivity.
6. Voltage reading shown are nominal values and may vary ±20% except H.V.

■ SCHEMATIC DIAGRAM STRUCTURE:

- SIGNAL
  - OTHERS [SHEET-1] 1/15
  - M-CON [SHEET-2] 2/15
  - AUDIO [SHEET-3] 3/15
  - AV [SHEET-4] 4/15
  - TUNER / IF / MA [SHEET-5] 5/15
  - BEP [SHEET-6] 6/15
  - MCD [SHEET-7] 7/15
  - WAC [SHEET-8] 8/15
- POWER 9/15
- DEF / CONV
  - DEF [SHEET-1] 10/15
  - CONV [SHEET-2] 11/15
- CRT-D / SVM 12/15
- D-CONVER 13/15
- TEXT-P2 ..... 14/15
- FRONT-IN RMT-IN 15/15

SPECIFICATIONS

Rated voltage		AC 220 V – 240 V, 50/60 Hz
Dimensions (Width × Height × Depth)		958 mm × 1159 mm × 444 mm
Mass		49.5 kg
Screen size		Type 43
Television system (Aerial input)	Channel coverage	**System** **Channel** **VHF** **UHF** **CATV** PAL B/G CCIR 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 PAL I UK — 21 – 69 — SECAM L CCIR * 21 – 69 * VHF : B-C ; 1-6, B-Q, 71-86 SECAM D/K OIRT 1 – 12 21 – 69 X1 ~ X19
	Special RF signal	**Colour system** **Sound system** 4.43NTSC 5.5/6.0/6.5 MHz PAL 60Hz 5.5/6.0/6.5 MHz
Colour system		PAL/SECAM/4.43NTSC/3.58NTSC
Sound output		14 W + 14 W
Accessories		• Remote control unit × 1 • Battery (R03, AAA) × 2

* Please refer to owner's manual in detail.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN